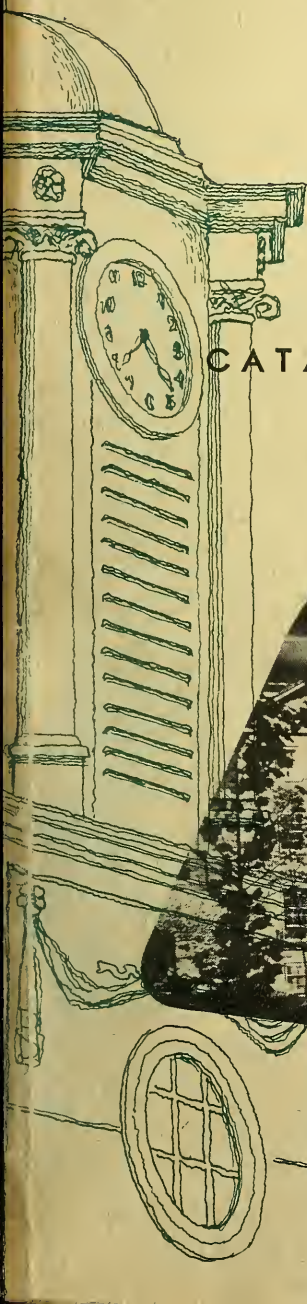


OFFICE COPY

Ohio University Bulletin

CATALOG NUMBER

1960—1962



You will find this bulletin useful as a reference during your attendance at Ohio University. Please keep it for this purpose.

The fees, programs, and requirements contained in this bulletin are effective with the 1960 summer session. They are necessarily subject to change without notice at the discretion of the University. A supplemental announcement of changes and additions effective for the 1961-1962 year will be issued in January 1961.

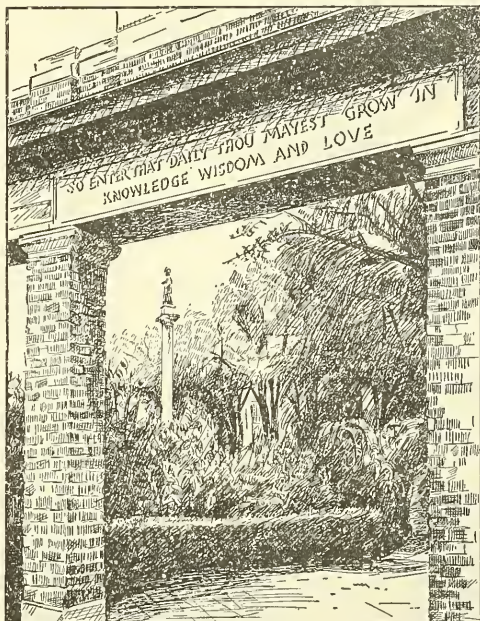
Visitors Welcome—

Visitors to the University are always welcome. Those desiring interviews with university personnel will often find it to their advantage to request appointments in advance. Office hours are from 8:00 to 4:00 Monday through Friday and 8:00 to 12:00 Saturday. Campus tours service is available at 10:00 Monday through Saturday in the Admissions Office; and at 2:00 on Saturday and Sunday at the University Center.

Correspondence With the University—

The directory appears on the inside back cover.

Ohio University

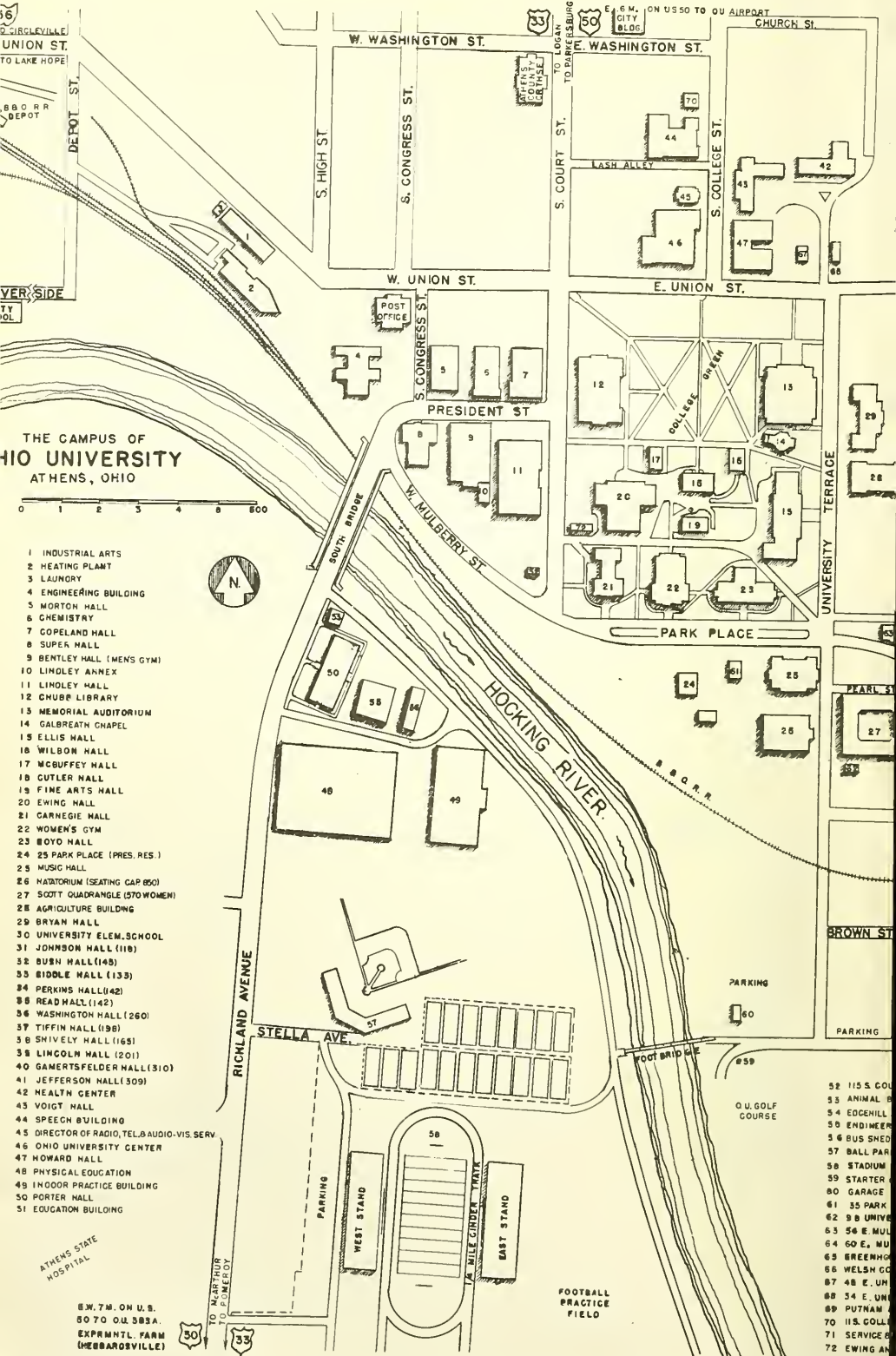


A GATEWAY TO OPPORTUNITY

1804 • OHIO'S FIRST UNIVERSITY • 1960

One Hundred Fifty-Six Years of Distinguished
Educational Service to the State and Nation

*See inside of map folder for identification
of pictures in Bulletin*



PICTURES IN THE BULLETIN

"An Act, establishing an
University . . . "-----*Frontispiece*

Edwin Watts Chubb Library-----*Frontispiece*

Opposite page:

Voigt Hall—A Residence Hall for Women----- 32

Bryan Hall—A Residence Hall for Women----- 33

East Green Residence Halls for Men----- 64

Helen Mauck Galbreath Memorial Chapel----- 65

Commencement on the Green----- 96

Freshmen Learn About the University's
Traditions (top)----- 97

A Dean Counsels with a Student (bottom)----- 97

One of the Home Economics Laboratories (top)-----128

A Student Teacher and Children (bottom) -----128

A Modern Classroom (top) -----129

A Journalism Laboratory (bottom) -----129

University Women's Glee Club (top) -----160

University Symphony Orchestra (Center) -----160

University Men's Glee Club (bottom) -----160

The Bobcats (top) -----161

A Meet in the Natatorium (bottom) -----161

The Study of History (top) -----192

Research in Chemistry (bottom) -----192

Summer Session Students enjoy "Under the
Elms" Concert (top) -----193

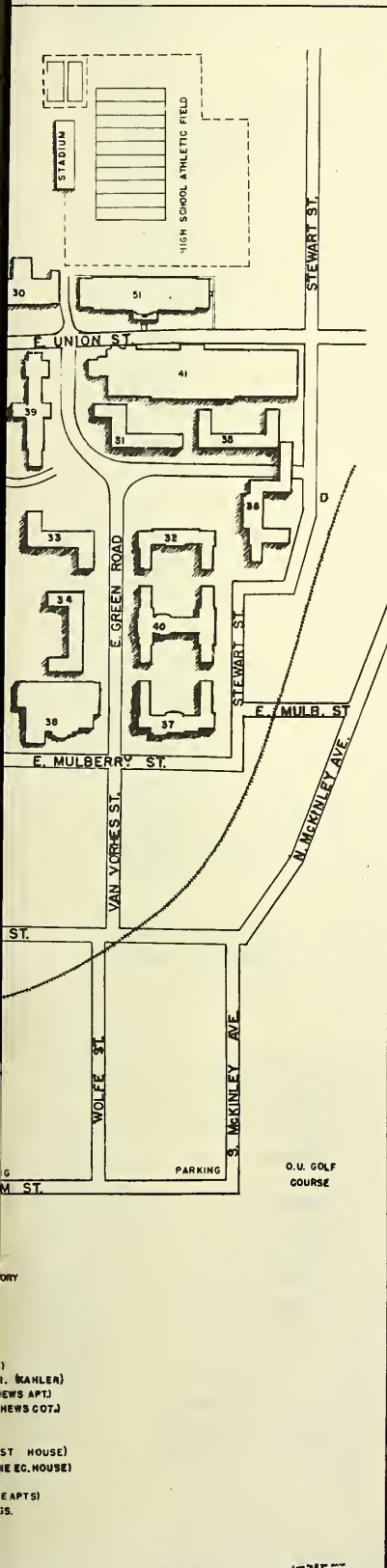
Students Enjoy the Advantages of Study at an
Ohio University Branch (bottom) -----193

A Photography Laboratory (top) -----224

Scene from a Theatre Production (bottom) -----224

R.O.T.C. Review (top) -----225

A Chemical Engineering Laboratory (bottom)-----225



To the Prospective Student

Ohio University, established by an act of the Legislature of the State of Ohio in 1804, is but a year younger than the state itself. Those who planned its founding were members of the original Ohio Company of Associates who came from New England and understood well the supreme importance of higher education. Through more than a century and a half the University has grown into a complex organization of seven colleges, five schools, a number of Branches, and other major divisions. Year-round study opportunities are provided, and programs leading to undergraduate and graduate degrees, including the doctorate, are available.

The University is coeducational. It is fully accredited, and is constantly improving its facilities and its instructional services to afford the best possible educational opportunities. Because it is supported by the state, the costs of attendance are lower than at most universities of similar high standards.

Ohio University offers an extensive program of recreational activities and intramural sports for all students. In inter-collegiate competition its varsity teams consistently rank high in the Mid-American Conference.

There are on the campus over 150 student organizations in which participation is encouraged as a valuable aid in developing leadership and civic responsibility. Students sit as active members on several committees concerned with the government of the University and the regulation of campus life.

The University and the Athens community present many cultural advantages. There are frequent and varied professional and student concerts, plays in the fine University Theatre, art exhibits, lectures, and other programs of general or special interest.

Qualified men have the opportunity for military training in Army and Air Force Tactics, Organization, and Administration. Upon completion of the university and the Reserve Officers Training Corps requirements they may be offered commissions as second lieutenants in the U. S. Army Reserve or the U. S. Air Force Reserve.

Ohio University is a friendly university. The faculty and administration strive to give students an education and to make life as pleasant for them as possible while they are doing it. With approximately 8000 students on its compact, residential campus, Ohio University is large enough to sustain a true university atmosphere but not so large as to endanger the personal relationship that should exist between every student and his university.

The University welcomes the serious consideration of all who are giving thought to the preparation they need to live a rich and effective life.

CHAPTER XXVII.

An Act, establishing an University
in the town of Athens.

WHEREAS institutions for the liberal education of youth, are essential to the progress of arts and sciences, important to morality, virtue and religion, friendly to the peace, order and prosperity of society, and honorable to the government that encourages and patronises them: Therefore,

Sec. 1. *BE it enacted by the general assembly of the state of Ohio,* That there shall be an university instituted and established in the town of Athens, in the ninth township of the fourteenth range of townships, within the limits of the tract of land purchased by the Ohio Company of Associates, by the name and style of the "Ohio University," for the instruction of youth in all the various branches of liberal arts and sciences, for the promotion of good education, virtue, religion and morality, and for conferring all the degrees and literary honors granted in similar institutions.

Sec. 2. *And be it further enacted,* That there shall be and forever remain in the said university, a body politic and corporate, by

Preamble.

University established.

Name & style

Body politic & corporate, established

A a



O H I O

UNIVERSITY BULLETIN



For The Biennium

1960 • 1962

ATHENS, OHIO

TABLE OF CONTENTS

(See Index for more detailed listings)

University Calendar	4
University History	12
Curricula and Degrees	12
Accreditation	14
Buildings and Grounds	14
Housing and Food Service	17
Other University Services	19
Scholarships	24
Loan Funds	30
Prizes and Awards	34
Cultural Opportunities	39
Recreational Opportunities	41
Student Activities and Organizations	43
Admissions	54
Fees	61
Expense Estimate	63
Registration	63
Graduation	72
The University College	79
The College of Applied Science	85
The College of Arts and Sciences	99
The College of Commerce	117
The College of Education	129
The College of Fine Arts	145
The Graduate College	161
The Branches	168
The Division of Physical Education and Athletics	174
The Reserve Officers' Training Corps Division	177
The University Extension Division	178
The Summer Session	179
Courses of Instruction	180
General Officers of the University	304
Administrative Officers	305
Administrative Officers in the Colleges	307
Officers of Instruction	309
Index	327

OHIO UNIVERSITY BULLETIN

Vol. LVII

JANUARY, 1960

Number 1

Published at Athens, Ohio, by Ohio University in January (twice), March, April, August, and November. Entered at the Post Office at Athens, Ohio, as Second-class Matter under act of August 24, 1912.

1960 - 1961

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Inclusive vacation
 dates:

Thanksgiving,

Noon Nov. 23 to

Noon Nov. 28

Christmas,

Dec. 17 to Jan. 4

at noon.

Spring, Noon

Mar. 29 to Noon

April 5.

1961 - 1962

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JUNE '62

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Inclusive vacation
 dates:

Thanksgiving,

Noon Nov. 22 to

Noon Nov. 27.

Christmas,

Dec. 17 to Jan. 3

at noon.

Spring, Noon

April 18 to Noon

April 25.

THE UNIVERSITY CALENDAR FOR 1960-1961

Graduate students should consult the calendar in the Graduate College Bulletin for dates relating to application for candidacy, completion of examinations, and filing of thesis or dissertation, and abstract.

THE 1960 SUMMER SESSION

First term June 13 to July 15; second term July 18 to August 20.
For complete announcements see the Summer Session Bulletin.

SUMMER PRECOLLEGE COUNSELING

A one-day testing and counseling program for all new freshmen. Freshmen come to the campus for one day.

FIRST SEMESTER 1960-1961

1960

Sept.	10	Sat.	Opening of Freshman Week.
Sept.	14	Wed.	Registration for all students at time specified on registration time card.
Sept.	15	Thur.	Classes begin.
Sept.	26	Mon.	Last day for registering for the semester.
Oct.	1	Sat.	Last day for adding course by change order. Last day for degree college student to withdraw from a course.
Oct.	3	Mon.	Last day for filing application for graduation on January 28.
Oct.	8	Sat.	Last day for partial refund of fees to students who withdraw.
Oct.	20	Thur.	English proficiency test in evening.
Oct.	22	Sat.	Last day for removing incomplete grades incurred during last session in residence.
Oct.	27	Thur.	University College seven-weeks' grades due in Registrar's office by 4:00 p.m.
Nov.	1	Tues	
	to		
Nov.	5	Sat.	Counseling period for University College students.

Nov.	5	Sat.	Last day for University College student to withdraw from a course.
Nov.	14	Mon.	Degree college mid-semester reports during the week.
Nov.	17	Thur.	English proficiency test in evening.
Nov.	23	Wed.	Thanksgiving recess begins at 12:00 noon.
Nov.	28	Mon.	Classes resume at 12:00 noon.
Dec.	8	Thur.	University College thirteen-weeks' grades due in Registrar's office by 4:00 p.m.
Dec.	9	Fri.	Advising of degree college students for second semester; classes dismissed.
Dec.	13	Tues.	Counseling period for University College students; second semester schedules are prepared.
	to		
Dec.	16	Fri.	
Dec.	16	Fri.	Christmas recess begins after last class.
1961			
Jan.	4	Wed.	Classes resume at 12:00 noon.
Jan.	12	Thur.	English proficiency test in evening.
Jan.	18	Wed.	Last day of classes.
Jan.	19	Thur.	Reading and review day.
Jan.	20	Fri.	Examinations begin.
Jan.	25	Wed.	Candidates' grades due in Registrar's office, 4:00 p.m.
Jan.	26	Thur.	Examinations end.
Jan.	28	Sat.	Semester closes; commencement; activities for new second semester students begin.

SECOND SEMESTER 1960-1961

Jan.	30	Mon.	Semester opens; counseling and advising.
Jan.	31	Tues.	Registration.
Feb.	1	Wed.	Classes begin.
Feb.	13	Mon.	Last day for registering for the semester.
Feb.	18	Sat.	Last day for adding course by change order.
			Last day for degree college student to withdraw from a course.

Feb.	20	Mon.	Last day for filing application for graduation on June 4.
Feb.	25	Sat.	Last day for partial refund of fees to students who withdraw.
Mar.	2	Thur.	English proficiency test in evening.
Mar.	11	Sat.	Last day for removing incomplete grades incurred during last session in residence.
Mar.	16	Thur.	University College seven-weeks' grades due in Registrar's office by 4:00 p.m.
Mar.	21	Tues.	
	to		
Mar.	25	Sat.	Counseling period for University College students.
Mar.	25	Sat.	Last day for University College student to withdraw from a course.
Mar.	29	Wed.	Spring recess begins at 12:00 noon.
Apr.	5	Wed.	Classes resume at 12:00 noon. Degree college mid-semester reports during the week and the following week.
Apr.	6	Thur.	English proficiency test in evening.
Apr.	27	Thur.	University College thirteen-weeks' grades due in Registrar's office by 4:00 p.m.
May	2	Tues.	
	to		
May	6	Sat.	Counseling period for University College students.
May	18	Thur.	English proficiency test in evening.
May	24	Wed.	Reading and review day; counseling and advising for September.
May	25	Thur.	Examinations begin.
May	30	Tues.	Memorial Day holiday.
May	31	Wed.	Candidates' grades due in Registrar's office, 2:00 p.m.
June	1	Thur.	Examinations end.
June	4	Sun.	Commencement.

THE UNIVERSITY CALENDAR FOR 1961-1962

Graduate students should consult the calendar in the Graduate College Bulletin for dates relating to application for candidacy, completion of examinations, and filing of thesis or dissertation, and abstract.

THE 1961 SUMMER SESSION

First term June 12 to July 14; second term July 17 to August 19. For complete announcements see the Summer Session Bulletin.

SUMMER PRECOLLEGE COUNSELING

A one-day testing and counseling program for all new freshmen. Freshmen come to the campus for one day.

FIRST SEMESTER 1961-1962

1961

Sept.	16	Sat.	Opening of Freshman Week.
Sept.	20	Wed.	Registration for all students at time specified on registration time card.
Sept.	21	Thur.	Classes begin.
Oct.	2	Mon.	Last day for registering for the semester.
Oct.	7	Sat.	Last day for adding course by change order. Last day for degree college student to withdraw from a course.
Oct.	9	Mon.	Last day for filing application for graduation on February 3.
Oct.	14	Sat.	Last day for partial refund of fees to students who withdraw.
Oct.	26	Thur.	English proficiency test in evening.
Oct.	28	Sat.	Last day for removing incomplete grades incurred during last session in residence.
Nov.	2	Thur.	University College seven-weeks' grades due in Registrar's office by 4:00 p.m.

Nov.	7	Tues.	Counseling period for University College students.
	to		
Nov.	11	Sat.	
Nov.	11	Sat.	Last day for University College student to withdraw from a course.
Nov.	13	Mon.	Degree college mid-semester reports during the week.
Nov.	22	Wed.	Thanksgiving recess begins at 12:00 noon.
Nov.	27	Mon.	Classes resume at 12:00 noon.
Nov.	30	Thur.	English proficiency test in evening.
Dec.	7	Thur.	University College twelve-weeks' grades due in Registrar's office by 4:00 p.m.
Dec.	8	Fri.	Advising of degree college students for second semester; classes dismissed.
Dec.	12	Tues	Counseling period for University College students; second semester schedules are prepared.
	to		
Dec.	16	Sat.	
Dec.	16	Sat.	Cristmas recess begins after last class.
1962			
Jan.	3	Wed.	Classes resume at 12:00 noon.
Jan.	18	Thur.	English proficiency test in evening.
Jan.	24	Wed.	Last day of classes.
Jan.	25	Thur.	Reading and review day.
Jan.	26	Fri.	Examinations begin.
Jan.	31	Wed.	Candidates' grades due in Registrar's office, 4:00 p.m.
Feb.	1	Thur.	Examinations end.
Feb.	3	Sat.	Semester closes; commencement; activities for new second semester students begin.

SECOND SEMESTER 1961-1962

Feb.	5	Mon.	Semester opens; counseling and advising.
Feb.	6	Tues.	Registration.
Feb.	7	Wed.	Classes begin.
Feb.	19	Mon.	Last day for registering for the semester.

Feb.	24	Sat.	Last day for adding course by change order. Last day for degree college student to withdraw from a course.
Feb.	26	Mon.	Last day for filing application for graduation on June 10.
Mar.	3	Sat.	Last day for partial refund of fees to students who withdraw.
Mar.	8	Thur.	English proficiency test in evening.
Mar.	17	Sat.	Last day for removing incomplete grades incurred during last session in residence.
Mar.	22	Thur.	University College seven-weeks' grades due in Registrar's office by 4:00 p.m.
Mar.	27	Tues.	
	to		
Mar.	31	Sat.	Counseling period for University College students.
Mar.	31	Sat.	Last day for University College student to withdraw from a course.
Apr.	2	Mon.	Degree college mid-semester reports during the week.
Apr.	12	Thur.	English proficiency test in evening.
Apr.	18	Wed.	Spring recess begins at 12:00 noon.
Apr.	25	Wed.	Classes resume at 12:00 noon.
May	3	Thur.	University College thirteen-weeks' grades due in Registrar's office by 4:00 p.m.
May	8	Tues.	
	to		
May	12	Sat.	Counseling period for University College students.
May	17	Thur.	English proficiency test in evening.
May	30	Wed.	Memorial Day holiday.
May	31	Thur.	Reading and review day; counseling and advising for September.
June	1	Fri.	Examinations begin.
June	6	Wed.	Candidates' grades due in Registrar's office, 2:00 p.m.
June	7	Thur.	Examinations end.
June	10	Sun.	Commencement.

GENERAL INFORMATION

Historical Background

Organization of the University

Curricula and Degrees

Buildings and Grounds

Housing and Food Service

Other University Services

Student Health Service

Counseling

Clinics

Veterans

Students from Other Countries

Bureau of Appointments

Student Financial Aids

Scholarships

Loans Funds

Student Employment

Prizes and Awards

Cultural and Recreational Opportunities

Student Activities and Organizations

Student Government

Publications

Dramatics

Music

Religious

Scholastic and Social

OHIO UNIVERSITY

HISTORICAL BACKGROUND

Ohio University has a rich heritage. Considered its co-founders are Dr. Manasseh Cutler of Ipswich, Massachusetts, and General Rufus Putnam of Rutland, Massachusetts. It was Cutler who in 1787 signed the Ohio Company's contract with Congress for the purchase of land in the Northwest Territory. The contract set aside two townships of land in the center of the purchase tract as the gift of the United States Government for the founding of a University. It was adding reality to Cutler's words which had been incorporated in the Ordinance of 1787 for the government of the Northwest Territory: "Religion, morality, and knowledge being necessary to good government and the happiness of mankind, schools, and the means of education shall forever be encouraged." It was Putnam who in 1799, after delay caused by the Indian Wars, laid out the town of Athens and the College Green. On March 1, 1803, Ohio, the first of five states to be formed from the Northwest Territory, entered the Union, and on February 18, 1804 its Legislature provided for the establishment of "an University . . . in the town of Athens . . . by the name and style of the Ohio University." Thus Ohio University became the first institution of higher learning in the Northwest Territory and the vast region beyond. It has grown with the Nation and the State into a diversified and effective institution of higher education.

ORGANIZATION OF THE UNIVERSITY

CURRICULA AND DEGREES

THE UNIVERSITY COLLEGE

Basic preparation for admission to each of the degree-granting colleges

Two-year terminal programs leading to the Associate in Arts diploma

THE COLLEGE OF APPLIED SCIENCE

Engineering Curricula leading to the degrees Bachelor of Science in Chemical Engineering, Bachelor of Science in Civil Engineering, Bachelor of Science in Electrical Engineering, and Bachelor of Science in Mechanical Engineering

Curriculum leading to the degree Bachelor of Science in Industrial Technology

The School of Home Economics

Curricula leading to the degree Bachelor of Science in Home Economics

The Department of Industrial Arts

THE COLLEGE OF ARTS AND SCIENCES

Curricula leading to the degrees Bachelor of Arts and Bachelor of Science.

Preprofessional curricula

THE COLLEGE OF COMMERCE

Curricula leading to the degrees Bachelor of Science (major in Agriculture), Bachelor of Science in Commerce, and Bachelor of Science in Secretarial Studies

The School of Journalism

Curricula leading to the degree Bachelor of Science in Journalism

THE COLLEGE OF EDUCATION

Teacher-training curricula leading to the degree Bachelor of Science in Education

THE COLLEGE OF FINE ARTS

Curricula in three schools leading to the degree Bachelor of Fine Arts

The School of Dramatic Art and Speech

The School of Music

The School of Painting and Allied Arts

THE GRADUATE COLLEGE

Programs leading to the degrees Master of Arts, Master of Business Administration, Master of Education, Master of Fine Arts, Master of Science, and Doctor of Philosophy

THE BRANCHES

Chillicothe

Ironton

Lancaster

Martins Ferry

Portsmouth

Zanesville.

THE DIVISION OF PHYSICAL EDUCATION AND ATHLETICS**THE RESERVE OFFICERS' TRAINING CORPS**

Air Science

Military Science and Tactics

THE UNIVERSITY EXTENSION DIVISION

Extension Classes

Correspondence Courses

CLASSIFICATION AND LOCATION

Ohio University is a coeducational, state-supported university. The city of Athens, home of the University, is located in scenic South-eastern Ohio and has a population of 12,000.

Free from the distractions of a metropolitan center, Athens offers many advantages to the person who desires to pursue university work in an atmosphere of culture and relative quiet.

Athens is conveniently accessible by automobile on U. S. Routes 33 and 50 and State Route 56. The city is on the main Baltimore-St. Louis route of the Baltimore and Ohio Railroad. North-south bus service is provided by the Lake Shore System and Trailways; east-west by Eastern Greyhound Lines.

THE SESSIONS

The sessions of the University consist, annually, of two eighteen-week semesters and a summer session of two five-week terms. Sequences of courses are planned to permit students to begin degree programs in any of these sessions. The plan provides year-round study opportunities for students at both the undergraduate and graduate levels.

ACCREDITATION

Ohio University is accredited by the North Central Association of Colleges and Secondary Schools, and by the recognized professional accrediting associations identified with its major academic divisions. It holds membership in the leading state and national educational and professional associations in its major areas of interest. Specific references to accreditation are contained in the respective college sections of the catalog. A selected list of memberships and approvals appears on the inside back cover.

BUILDINGS AND GROUNDS

Ohio University's physical plant consists of 62 principal buildings, 86 auxiliary buildings, and 332 acres of land. There is in addition the Ohio University Airport of 139 acres and the University Farm of 393 acres. A map of the campus with a key to the buildings appears in the front of the catalog.

ON THE GREEN

The "College Green" was laid out between 1799 and 1804 in compliance with the terms of a Resolution of the General Assembly of the Territory of Ohio passed in 1799. Its present boundaries were fixed in 1844.

The Green now comprises a small part of the land holdings of the University, and a majority of the university buildings are to be found off The Green, although near it.

On The Green are located 12 buildings and two memorial gateways.

MANASSEH CUTLER HALL (18), the oldest building in the Northwest Territory erected for the purposes of higher education, was known in its early days as "The College Edifice" and later as the Center Building. It was given its present name for one of the founders of the University. Its construction was begun in 1816 and completed in 1818. Cutler Hall and the nearby "Wings," of similar style, comprise an interesting unit of early American architecture.

WILSON HALL (16) was erected in 1937 and for more than a century was known as East Wing.

McGUFFEY HALL (17), originally known as West Wing, was erected in 1839. This building was named for William Holmes McGuffey, author of the famous "Readers" and a onetime president of Ohio University. It is identical with Wilson Hall in the unit of three old buildings, which today house administrative offices.

Other buildings on The Green are — the EDWIN WATTS CHUBB LIBRARY (12), the ALUMNI MEMORIAL AUDITORIUM (13), the GALBREATH MEMORIAL CHAPEL (14), EWING HALL (Social Sciences) (20), HALL OF FINE ARTS (Architecture, Photography) (19), ELLIS HALL (Art, English, Languages) (15), CARNEGIE HALL (Mathematics, R.O.T.C.) (21), the WOMEN'S GYMNASIUM (22), and BOYD HALL (residence hall) (23).

Most of the other university buildings are located on streets adjacent to or leading from The Green.

OFF THE GREEN

ON EAST UNION STREET, north boundary of The Green, are the UNIVERSITY CENTER (46), the UNIVERSITY GUEST HOUSE (67), the HOME ECONOMICS MANAGEMENT HOUSE (68), the UNIVERSITY ELEMENTARY SCHOOL (30), and the EDUCATION BUILDING (51).

THE STUDENT HEALTH CENTER (42) is located off East Union Street.

ON UNIVERSITY TERRACE, immediately east of The Green, is BRYAN HALL (residence for women) (29) and the AGRICULTURE AND HOUSEHOLD ARTS BUILDING (28).

Also on University Terrace, southeast of The Green, is SCOTT QUADRANGLE (27) and the NATATORIUM (26). Scott Quadrangle, a residence for women, is composed of eight units — ATKINSON, BENTLEY, COPELAND, DANA, DUNKLE, EVANS, GORDY, and HOOVER halls.

ON PARK PLACE, south boundary of The Green, is MUSIC HALL (25) and the PRESIDENT'S HOME (24).

ON COLLEGE STREET, a street running north and south from The Green, will be found the SPEECH BUILDING (44), VOIGT HALL (43), and HOWARD HALL (47). The latter two halls are residences for women.

ON SOUTH COURT STREET, west boundary of The Green are LINDLEY HALL (residence for women) (11) and COPELAND HALL (Commerce, Journalism) (7).

ON PRESIDENT STREET, west of The Green, are to be found BENTLEY HALL (9), SUPER HALL (Physics) (8), the CHEMISTRY BUILDING (6), MORTON HALL (Zoology) (5), and the ENGINEERING BUILDING (4).

Located on top of the Engineering Building is the nine-inch refractor telescope of the Department of Astronomy.

ON RICHLAND AVENUE, across the South Bridge, are PORTER HALL (Life Sciences) (50), ENGINEERING LABORATORY (55), ANIMAL BUILDING (53), PHYSICAL EDUCATION BUILDING (48), and INDOOR PRACTICE BUILDING (Ice Rink) (49).

The INDUSTRIAL ARTS BUILDING (1) and the HEATING PLANT (2) are located on West Union Street.

EAST GREEN

ON THE EAST GREEN, an area immediately east of the main campus, are located eleven residence halls: JOHNSON (31), BUSH (32), BIDDLE (33), PERKINS (34), READ (35), WASHINGTON (36), TIFFIN (37), SHIVELY (38), LINCOLN (39), GAMERTSFELDER (40), and JEFFERSON (41).

ATHLETIC FIELDS

The Athletic Fields, comprising 210 acres, are located across the Hocking River on the east side of Richland Avenue. There is an excellent baseball field (57); Indoor practice building and Ice Rink (49); a new Physical Education Plant (48); Ohio Stadium (58), seating 14,000 persons, with a football gridiron and running track; intramural fields; tennis courts; and practice fields. Additional recreational areas total 206 acres.

UNIVERSITY GOLF COURSE

The nine-hole University Golf Course is located on the east side of the Hocking River across from Ohio Stadium and the other athletic fields. The two areas are connected by a footbridge.

UNIVERSITY AIRPORT

The Ohio University Airport of 139 acres is located approximately two miles from the campus on U.S. Route 50, east of Athens. The field has a paved runway 3200 feet in length, four hangars, and an administration building. The hangars provide space for plane storage, a repair station, a Link Trainer room, and a pilots' ready room. The field is equipped with runway lights for night flying.

UNIVERSITY FARM

The University Farm of 393 acres is located nine miles southwest of Athens. Laboratory work and demonstrations are carried on with crops (primarily grain and feed) and with livestock (dairy and beef cattle, hogs, and poultry). On the farm are two homes, four barns, poultry houses, and numerous small buildings.

FISCHER HOUSE

This residence, a landmark in Zaleski, is the gift of Miss Margaret Jane Fischer.

HOUSING AND FOOD SERVICE

LIVING ACCOMMODATIONS: Ohio University provides attractive residence halls for the health and well-being of its students. All of the men's and women's facilities are adjacent to the campus, easily and conveniently accessible to other University buildings and to the business section of the city of Athens. Each residence hall has its own dining hall, with the exception of Voigt Hall and the dormitories on the East Green which are served by central dining halls. Management of the dining halls is under competent dietitians, who serve as members of the staff of the Director of Residence Services. Each residence hall is under the supervision of a resident manager or resident head. In addition, a number of graduate assistants and upperclass student counselors are assigned to the halls to aid in the over-all counseling program.

APPLICATIONS: Applications for rooms in either the women's or men's residence halls should be made to the Director of Housing, Ohio University, Athens, Ohio. **HOUSING CONTRACTS ARE MADE FOR THE FULL ACADEMIC YEAR.** An application is considered only if accompanied by a \$5.00 retaining fee made payable to Ohio University. (Applicants for mid-year entrance remit \$2.50.) The retaining fee is not refundable. **ALL FRESHMEN, EXCEPT THOSE TWENTY-ONE YEARS OF AGE AND OVER, MUST LIVE IN UNIVERSITY HOUSING DURING THEIR FIRST YEAR.** Exceptions are made for commuters and residents of Athens.

BOARD: The cost of board in University dining halls is \$234.00 a semester for 21 meals a week. Meals are served throughout the academic year except during the Thanksgiving, Christmas, and Spring recesses. Board rates are subject to revision, upward or downward, in accordance with prevailing economic conditions. Residents in all University housing accommodations are required to eat in University dining halls.

ROOMS: In the residence halls for men or women, two or more students are assigned to each room. Semester room rates in the permanent dormitories for each student range from \$117.00 to \$144.00. All room rates include telephone, mail, and linen services. Rooms are furnished with dresser, study desks, chairs, beds, and bed linen which is laundered by the University. Items such as blankets, bed spread, dresser scarf, towels, toilet articles, and such accessories as draperies and desk lamp, must be provided by the student.

The University reserves the right to use rooms in any of the residence halls during the Christmas recess.

RESIDENCE HALLS: There are eight residence halls and two University-owned cottages for women. The residence units are Bryan, Howard, Jefferson, Lindley, Shively, and Voigt Halls, Scott Quadrangle, and Ohio University Center Dormitory.

The present facilities for men include ten residence halls. They are Biddle, Boyd, Bush, Gamertsfelder, Johnson, Lincoln, Perkins, Read, Tiffin, and Washington.

PAYMENTS: Following the assignment of a student to a place in a residence hall, an advance payment is required. The amount of the advance deposit, together with a deadline for its receipt, will be indicated in the assignment letter. The advance deposit is applied to the student's room account. A schedule of payments and dates, determined by the Office of the Treasurer, will be forwarded with the assignment letter.

CANCELLATIONS AND REFUNDS: A full refund of the advance room payment will be made to a person if the request for cancellation is made by September 1 for the fall semester and by January 15 for the spring semester. *After those dates, a refund will be made only to those who do not register or who officially withdraw from the University,* and such refunds will be on the basis of 80 per cent if requested before the end of the second week of the term, and 50 per cent if within the third or fourth weeks (less any charges for period of occupancy). A week is interpreted to mean a calendar week ending on Saturday. Refunds are issued thirty days after the date they are authorized.

JEFFERSON HALL GARAGE

Spaces are available for 119 cars in the Jefferson Hall garage. The rental rate is \$30.00 per semester, with assignments made on a first-come, first-served basis. The regular housing refund policy also applies to the Jefferson Garage (see Cancellations and Refunds). Application for garage space should be made to the Director of Housing, Ohio University, Athens, Ohio.

ROOMS IN PRIVATE HOMES

Rooms in private homes are listed in the Office of the Director of Housing. Rooms are not listed until they have been inspected and approved by a member of the staff of the Director of Housing or of the Dean of Women. All undergraduate students, except those 25 years of age or over, are required to reside in approved housing. This rule also applies to married undergraduates under 25 whose husbands or wives do not reside with them in Athens.

FRATERNITIES AND SORORITIES

Eighteen social fraternities and eleven social sororities maintain houses near the campus in which residence and dining facilities are available to members.

HOUSING FOR MARRIED STUDENTS

NOTE: The apartment and trailer park facilities are provided only for married students and their families.

APARTMENTS: The University has 112 apartment units located on East State Street, approximately two miles from the Green. Each of these apartments consists of a living room, bedroom, kitchen, and bathroom. Each has an abundance of closet space and is equipped with

a gas cooking range and a gas heating unit. Tenants must arrange to supply the additional needed articles. The rent is \$42.00 a month, payable in advance. The rental charge includes all utilities.

In addition, there are sixteen two-room prefabricated units which accommodate a like number of families. The facilities are equipped with gas cooking range, oil heating unit, kitchen table and chairs, and dresser. The tenant must provide his own studio couch or bed, and refrigerator. The rent for each unit is \$30.00 a month, payable in advance. The rental charge includes gas and water. Each family unit is quite livable.

TRAILER PARKS: The principal University trailer park, accommodating 36 privately-owned trailers, is located on East State Street, adjacent to the University Airport. A smaller park, accommodating seven trailers, is located on Richland Avenue. Space rental is \$14.00 a month, which includes water and sewerage. Excellent toilet, bathing, and laundry facilities are provided for all trailer occupants. The rental charge does not cover electricity.

TRANSPORTATION: Convenient bus service is maintained by the University, on an hourly schedule when classes are in session, at no cost to the occupants of the East State Street area.

Further information about quarters for married students may be obtained from the Director of Housing, Ohio University, Athens, Ohio.

OTHER UNIVERSITY SERVICES

STUDENT HEALTH SERVICE

The Student Health Service facilities are to be found in the Health Center Building, which can be reached from East Union Street.

The Hudson Health Center includes a complete clinic with X-ray and minor surgery, a hospital of forty beds with an isolation wing, a physio-therapy department and nurses' quarters. There is an auditorium where, by means of health films and lectures, an accent is placed upon preventive medicine and health education.

The Health Service maintains a continuous record of each student's health, beginning with the family physician's report which is required on admission. A tuberculin skin test is given each new student on admission. All positive skin reactors are given a chest X-ray each year. All negative reactors are urged to be re-tested each year. This provides a means of early detection and protection for the college community. The Director of the Health Service in this, as in all other respects, has authority to take steps to prevent the spread of communicable diseases and to maintain standards of sanitation on the campus.

The Health Service staff comprises four full-time doctors and nine registered nurses.

Students are entitled to the following:

1. *Clinic.* This ambulant or outpatient service is open from 8 a.m. to 5 p.m., except Saturdays when the hours are 10 a.m. to 12 noon. The Clinic is closed on Sundays and holidays.

2. *Hudson Hospital.* This is the bed, or inpatient service. Each student is entitled to hospital care, subject to the judgment of the doctors. The daily visiting hour is from 2:30 to 3:30 p.m., and the number of visitors at any time is limited to two per patient. During epidemics the visiting hour may be suspended.

3. *Emergency Service.* When the Clinic closes at 5:00 p.m. the main door is locked. Throughout the evening and night a nurse remains on duty, and a doctor is on call to care for emergencies. Admission can be gained by ambulance or car at the east entrance to the Health Center, or on foot at the west entrance where there is an illuminated night bell. This service is for emergencies only, and is not intended to be an extension of the daytime Clinic.

The university physicians do not make outside calls except in extreme emergency, and then only when called by a housemother, student dean, or other responsible person. The accessibility of the Health Center to all parts of the campus is one of its conspicuous features.

4. *Consultations.* Specialists in eye, ear, nose, throat, major surgery, and psychiatry are available in Athens, and consultations, obtained at the discretion of the Director, are at the expense of the Health Service. The student is responsible for any expense beyond first consultation. The Health Service does not assume any of the cost of glasses or dental care. Students are expected to have these matters attended to at home. Likewise, major surgery is not provided for or paid for by the Health Service. The Health Center is not equipped to care for such cases, and they are therefore transferred to their homes or to the local (Athens) hospital. Students' families should carry hospital and medical insurance.

5. *Diagnosis and Medicines.* The Health Center is equipped with full diagnostic services, such as clinical laboratory, x-ray, electrocardiogram, and metabolism tester. The physiotherapy department consists of whirlpools, diathermy, microthermy, bakers, and ultra violet. No charge is made for the use of any of these. Medications are also dispensed without any charge. The doctor must be the judge as to what tests and what medications are required in any given case.

ABSENCE CERTIFICATES. Absence certificates will be issued only to students who are actually confined to the Health Center Hospital, or those who are involved in an emergency.

VACCINATION AND IMMUNIZATION. New students, whether freshmen or transfers, must present evidence of vaccination against smallpox within the past five years, before being admitted to Ohio University. Evidence of immunization against tetanus is also required. Blank certificates giving detailed instructions are sent to each applicant for admission and must be returned to the Director of Admissions properly completed and signed.

COUNSELING

EDUCATIONAL COUNSELING. Each student is assigned to a faculty counselor who is primarily concerned with the educational guidance of the student throughout his freshman year. The counselor assists with the selection of courses and follows the progress of each student in his studies. Because the faculty counselor is selected from the student's major field of interest, many students choose to continue with the same adviser for four years. In the degree college the student is assigned to or selects his adviser on the basis of his field of specialization or concentration. Students are encouraged to consult freely with faculty advisers.

GENERAL COUNSELING. General counseling is a special concern of the Dean of Men and the Dean of Women and their associates in their offices in McGuffey Hall. Through student activities and organizations and the housing program these persons are in close touch with student life. Problems as a normal part of educational development are often personal in nature, as, for example, meeting financial needs, getting along with people, and making vocational choices. The offices of the Dean of Men and Dean of Women provide students with resources for helping themselves when confronted with perplexities beyond their own immediate resources. They work in close relationship with all other services in the University which are concerned with the welfare of students.

TESTING AND VOCATIONAL COUNSELING. Tests for all new students are administered, scored, and reported to the administrative officers and faculty counselors. Students, counselors, and advisers may secure the results of such tests by inquiring at the University Testing and Vocational Counseling Service.

Complete vocational counseling is available to interested students. Educational and vocational plans are developed on the basis of a survey of the abilities, interests, aptitudes and achievements, and also on the basis of the requirements for the occupations and their training programs. A fee of \$5 is charged to cover the costs of tests and test scoring. Application for this service may be made by contacting the staff of the Testing and Counseling Service, Room 235, Porter Hall.

SPEECH AND HEARING CLINIC

The School of Dramatic Art and Speech offers clinical services without charge to students with special problems in speech or hearing. Students wishing counseling or training should inquire at the office of the Speech and Hearing Clinic, Room 204, Speech Building.

VETERANS

Veterans who enter Ohio University should report to the Office of the Coordinator of Veterans Affairs, Room 9A, Ewing Hall. Students who expect to be enrolled under Public Law 634 (orphans of

veterans) should also report to the Veterans Office as soon as possible after their arrival on campus. It is the desire of that office to be of all possible service to veterans and students enrolled in the University.

STUDENTS FROM OTHER COUNTRIES

Ohio University welcomes students from other countries who show promise of profiting from educational opportunities in this country, and it has prepared special information for the benefit of prospective students from outside the continental limits of the United States. This information may be obtained by writing to the Director of Admissions, Ohio University, Athens, Ohio.

There is, furthermore, an Adviser to Foreign Students, whose interest in the problems of the foreign student is not limited to official matters. All such students are invited to consult him at any time during their stay at the University. His office is located at 29 South College Street.

BUREAU OF APPOINTMENTS

The Bureau of Appointments, located in Cutler Hall, affords students, former students, and graduates of the University assistance in securing positions in such fields as teaching, business, and industry.

A registration fee of \$2 entitles an applicant to this service while enrolled as a student in the University and for one year after graduation. After the one year period, an additional charge of \$2 a year is made for each year in which assistance is requested.

The Director of the Bureau of Appointments and the office personnel are available to counsel students relative to their vocational plans.

The Bureau maintains and promotes all possible connections with prospective employers for the benefit of persons seeking initial placement and for those looking toward advancement to better positions.

OFFICE OF UNIVERSITY INFORMATION

The Office of Information prepares stories, features, and pictures concerning all branches of the University, including intercollegiate athletics, and the activities and accomplishments of students and student groups, for publication in newspapers and magazines and for radio broadcasts. Assistance is given in writing material for various university publications and bulletins. Liaison is maintained with other university and college publicity departments. Visiting members of the press and radio are invited to make the offices located in Cutler Hall, their headquarters when visiting Ohio University, and every aid is given in securing data requested personally or by letter.

A division of the office, located in Wilson Hall, provides interesting and reliable information to prospective students and public school officers through personal interviews, literature, and correspondence; and arranges for the availability of university talent and services to high schools, civic groups, and other organizations in order that good will toward the University may be furthered.

ALUMNI OFFICE

The Alumni Office, a central records office and service agency, located in Cutler Hall, is maintained jointly by Ohio University and the Ohio University Alumni Association. The work of the office is supervised by the Alumni Secretary, who is the executive secretary of the alumni association.

The maintenance of biographical and address records of graduates and former students is a primary function of the office. *The Ohio Alumnus*, published monthly from October to June, is the official magazine of the alumni association and is mailed to all members paying the annual membership fee.

The Ohio University Alumni Association was organized June 22, 1859, to serve the mutual interests of the alumni and the University. Any person who has attended the University for at least one year is eligible for membership. The Association is governed by a Board of Directors representing the various geographic areas in the United States, the Alumni Clubs, the Alumni Council, the Class Secretaries Council, the Varsity Board Council, the University, and the Ohio University Fund, Inc. The local groups, known as clubs, have been organized in cities, counties, and other geographical areas throughout the United States and abroad, where the number of graduates and former students is large enough to warrant or support a club.

OHIO UNIVERSITY FUND, INCORPORATED

The Ohio University Fund, Incorporated, a non-profit organization, was incorporated October 11, 1945, under the laws of the State of Ohio for the support of the educational undertakings of Ohio University. The corporation receives and holds in trust any property, real and personal, that is given, devised, bequeathed, given in trust, or in any other way made over to the Corporation for the use or benefit of Ohio University, or of any student or professor, or any dependent thereof, for the purpose of carrying on at the university any line of work, teaching or investigation, which the donor, grantor, or testator may designate. The corporation invests and disburses all monies received, and manages, administers, and controls all property received according to the specifications established by the donors. General gifts are used for projects that cannot be financed by state appropriations, such as student aid, research, scholarships and awards, travel, library needs, intellectual and cultural life, special equipment, general needs, and the president's fund, and other uses as determined by the Board of Trustees.

The Fund is governed by a board of trustees of nine members, chosen to give balanced representation from the Board of Trustees of Ohio University, from the Administration of the University, and from the Ohio University Alumni Association.

Contributions should be made payable to the Ohio University Fund, Inc., and sent to the Director, Ohio University Fund, Inc., Cutler Hall, Ohio University, Athens, Ohio. The Director will be happy to answer inquiries relating to the purposes and management of the Fund.

STUDENT FINANCIAL AIDS

Ohio University assists students in furthering their education by providing three types of financial aid: scholarships, loans, and employment.

Unless otherwise indicated, persons desiring information concerning these types of aid should direct their communications to the Director of Student Financial Aids, Ohio University, Athens, Ohio.

All scholarships are awarded by the Ohio University Scholarships Committee. Unless otherwise indicated, these awards are based upon a consideration of these factors: class rank, Ohio State Psychological Examination score, need, activities, and recommendations.

ENDOWED SCHOLARSHIPS

As their contribution to Ohio University's educational leadership, alumni and friends have contributed nearly \$400,000 to the Ohio University Endowed Scholarship Fund. The average value of these scholarships at the present time is \$190. The following are the names of the scholarships and the donors:

Anonymous Sesquicentennial

The Adolf H. Armbruster Scholarship Fund	Friends of Adolf H. Armbruster
Athens Branch of American Association of University Women	Athens Branch of A. A. U. W.
The B. P. O. E., Athens Lodge No. 973 Scholarship	B. P. O. E., Athens Lodge No. 973
Athens Rotary Club Scholarship	Athens Rotary Club
W. B. Barker Memorial	Athens Public School Friends
The John L. and Flora M. Beckley Scholarship	Mr. Harry C. Beckley
The Clinton Poston Biddle Scholarship	Dr. Thomas Rollin Biddle
The Grace Poston Biddle Scholarship	Dr. Thomas Rollin Biddle
The Thomas Rollin Biddle Scholarship	Mrs. Grace Poston Biddle
The Frederick W. Bush Scholarship	The Messenger Publishing Company
The Mary K. Bush Memorial	Mr. Russell T. Bush
The John Gail Case and Celia H. Case Scholarship	Mr. John G. Case, Jr.
B. P. O. E., Chillicothe Lodge No. 52	Chillicothe B. P. O. E.
Citizen's National Bank of Chillicothe	Citizens National Bank of Chillicothe
Chillicothe Division, Columbus & Southern Ohio Electric Co.	Columbus & Southern Ohio Electric Co.
Chillicothe Gazette	Chillicothe Gazette

Mead Corporation of Chillicothe Chillicothe Paper Co. Chillicothe Telephone Co. The Charles Moffatt Copeland Scholarship The Manasseh Cutler Scholarship	Mead Corporation of Chillicothe Chillicothe Paper Co. Chillicothe Telephone Co. Mr. William Henry Fenzel
The Oral and Ruth Daugherty Scholarship The William J. Davis, Sr. Scholar- ship The Thomas J. Davis Memorial	Athens County 1953 Ohio Sesqui- centennial Committee Mr. and Mrs. Oral Daugherty Mr. and Mrs. William J. Davis, Sr.
Columbia Downing Scholarship Fund The William Henry Fenzel Scho- larship The Forbes Fund The Sue Gesling Scholarship The Eleanor Gifford Scholarship	Bank of Athens, National Banking Association Mrs. Madelaine Downing Knight Sig Alumni
The Mr. and Mrs. Ora D. Grove Scholarship The Russell P. & Wilma Lane Herrold Scholarship The Ray William Heslop Scholar- ship The Mr. and Mrs. Hunter Hooe Scholarship The Clarence H. Horn Scholarship	Mr. William W. Gesling Episcopal Diocese of Southern Ohio Mr. Darrell A. Grove Russell P. and Wilma Lane Herrold Heslop Inc., Mr. Jack W. Heslop, President Mr. and Mrs. Hunter Hooe Robert H. Horn and Jean Campbell Horn Fred Johnson and Elizabeth Zeller Johnson Mrs. Vera Stewart Jones
The Fred H. and Elizabeth John- son Scholarship The Clarence Lindley Jones Scho- larship The Sammy Kaye Scholarship The Patricia Kelly Memorial Scholarship The Edwin L. and Ruth Zimmer- man Kennedy Scholarship The Ventura Cundiff Knowlton Scholarship The Clarence Luster Knowlton Scholarship Lawhead Press, Inc. The Marcel Levion Scholarship Lindley Hall Scholarship The Dr. Raymond Lupse Scholar- ship The Heber McFarland Scholarship	Sammy Kaye Scott Quadrangle Mr. and Mrs. Edwin L. Kennedy Knowlton Construction Company Knowlton Construction Company Lawhead Press, Inc. Mrs. Bertha E. Levion Lindley Hall Dr. and Mrs. Raymond Lupse Mr. Heber McFarland

The Grosvenor S. and Wilson H. McKee Scholarship	Mr. and Mrs. Grosvenor S. McKee
The George McLaughlin Scholarship	Mrs. Helen McLaughlin Gray
The Don McVay Scholarship	Ohio Farmers Insurance Company
The Homer Marshman Scholarship	Mr. Homer H. Marshman
The Roscoe J. Mauck Scholarship	Mr. John Galbreath
The Dr. T. H. Morgan Scholarship	Mrs. T. H. Morgan
The Jean Adams Morton Scholarship	Dr. Robert L. Morton and Jean Adams Morton
The Charles G. O'Brien Scholarship	Mr. Charles G. O'Brien
Ohio University Campus Affairs Committee Scholarship	O. U. Campus Affairs Committee
Ohio University Class of 1954 Scholarship	O. U. Class of 1954
Ohio University Interfraternity Council and Panhellenic Council Scholarship	O. U. Interfraternity Council and Panhellenic Council
Ohio University Men's Faculty Club Scholarship	O. U. Men's Faculty Club
Ohio University Men's Independent Association Scholarship	O. U. Men's Independent Association
Ohio University Mother's Club of Greater Cleveland Scholarship	O. U. Mother's Club of Greater Cleveland
Ohio University Women's League Loan and Service Fund Scholarship	O. U. Women's League Loan and Service Fund
The Frederick and Josephine Stiers Phillips Scholarship	Frederick and Josephine Stiers Phillips
The Potter, Tyler, Martin, and Roth Scholarship	Potter, Tyler, Martin and Roth, Architects
The Harriet L. Pullman Scholarship	Marcel Levion and Bertha E. Levion
The William H. and Flora Riecker Scholarship	Judge Carlos M. Riecker
The H. Westcott Roach Scholarship	Mrs. Helen Hedden Roach
Scott Quadrangle Scholarship	Scott Quadrangle
The Grace Grosvenor Shepard Memorial	Dr. Cassius M. Shepard
The Dr. Anna Hill Shinnick Scholarship	William F. Shinnick Educational Fund
The Paul and Beth Kilpatrick Stocker Scholarship	Lorain Products Corporation
The Harriet Tenan Scholarship	Mrs. Harriet Tenan
The Alpha Tau of Theta Chi Fraternity Scholarship	Theta Chi Fraternity, Alpha Tau Chapter
The Frederick Treudley Scholarship	Mr. and Mrs. Walter J. Shapter, Jr.

The Faith McCracken Myers and J. Arthur Myers Scholarship	Dr. J. A. Myers
The Elizabeth E. Baker Scholarship	Dr. John C. Baker
The Walter J. Shapter and Margaret Durrett Shapter Scholarship	Mr. and Mrs. Walter J. Shapter, Jr.
The Lt. Vernon Cope Vickers, Jr. Scholarship	Samuel B. Erskine and Mary Vickers Erskine
The Irma E. Voigt Scholarship	Ohio University Mortar Board-Cresset
The Hiram Roy Wilson Scholarship	Mr. and Mrs. Howard E. Hender-shot
The Hiram Roy and Florence Craig Wilson Scholarship	Dr. Hiram Roy Wilson
The James W. Wisda Scholarship	Mr. James W. Wisda
The Gordan and Juliana Wiseman Scholarship	Dr. and Mrs. Gordon Wiseman
The Jack Wolfe Scholarship	Mr. John H. Wolfe, Jr. and Mrs. Wolfe
The Thomas M. Wolfe Scholarship	Athens National Bank
The George and Ray Wood Scholarship	Mr. Ray G. Wood and Mrs. Wood
The Oliver L. Wood Scholarship	Friends of Oliver L. Wood
The Mary Ellen Jane Webb Scholarship	Mr. E. Perry Webb and Mrs. Webb
Victor Whitehouse Memorial	Friends of Victor Whitehouse

GIFTS

ALUMNI AND MOTHERS CLUB SCHOLARSHIPS. Scholarships in varying amounts are awarded annually by Ohio University Alumni and Mothers Clubs located throughout the state. These awards are usually granted to seniors graduating from high school in the immediate area of the organization, or to students already enrolled from these areas.

GALBREATH SCHOLARSHIPS. A grant from Mr. John W. Galbreath, '20, provides ten scholarships to outstanding freshmen on the basis of academic promise, citizenship, and personal qualities.

JAMES W. FAULKNER MEMORIAL FUND SCHOLARSHIP. This scholarship is awarded to a worthy and needy student of Journalism, who must be a resident of Ohio. The scholarship was established by the trustees of the Fund which was raised by friends of Mr. Faulkner, a pioneer among Ohio political writers and state house correspondents, in 1923.

LICHTER GRANTS-IN-AID. Through a gift of the Lichter Foundation of Cincinnati, fifteen grants-in-aid are available each year to high school graduates having financial need who desire an opportunity to work their way through college. Awarding of the grants will be based

upon character, superior scholastic standing, recommendations, high school activities, need, and personal interviews.

Applicants must be prepared to demonstrate their willingness to take employment as a means of helping to defray their expenses. The University will make available employment on the campus, or will give assistance in obtaining employment elsewhere.

Should a successful applicant find that the grant-in-aid, his own earnings, and other help from outside sources are not sufficient to cover school expenses, the student will have the opportunity to borrow from the Lichter Loan Fund (see Loan Funds).

ATHENS COUNTY SCHOLARSHIPS. Mrs. Oral Daugherty each year donates to a fund for scholarships for students from the Athens County area. These scholarships are based upon the general scholarship requirements.

ATHENS MERCHANTS SCHOLARSHIPS. The merchants of Athens each year donate varying amounts of money to a scholarship fund for students from the Southeastern Ohio district. These scholarships are based upon the general scholarship requirements.

INDUSTRIAL SCHOLARSHIPS

ANCHOR HOCKING SCHOLARSHIPS. The Anchor Hocking Scholarships have been established by the Directors of the Anchor Hocking Glass Corporation, Lancaster, Ohio. Those eligible to apply for these scholarships are seniors or graduates of all high schools in counties in which the corporation's plants and offices are located. Graduation from an accredited high school and a scholastic standing in the upper third of the graduating class are requirements.

Each scholarship has an annual monetary value of \$300 with the possibility of annual renewal for the four-year period. Renewals are based upon the scholastic accomplishments of recipients.

Candidates for the Anchor Hocking Scholarships submit applications to the Scholarships Committee, Ohio University, Athens, Ohio, and the selection rests entirely with that group.

ALBERT F. MARTING SCHOLARSHIPS. One two-year scholarship is available each year to students who enroll in the Portsmouth Branch.

Final awards are made by a committee of five members. Awards are based upon high school scholastic record, score on the college ability test, and qualities of citizenship, leadership, and participation in school activities.

Applications, in writing, should be made not later than July 1 to The Marting Brothers Co., Portsmouth, Ohio.

HENRY ZENNER SCHOLARSHIPS. The Henry Zenner Scholarships were established by the Directors of the Royal McBee Company, Athens, Ohio, and Port Chester, New York, for sons and daughters of persons in the employ of the company.

High school graduates and upperclass students are eligible to apply. The applications should be submitted directly to the Scholarships Committee, Ohio University, Athens, Ohio, which has sole jurisdiction in the awarding of the scholarships.

Each scholarship provides for the payment of all registration fees, room rent, and an allowance of not more than \$75 for books and supplies each year. It is awarded for one year, but is renewed automatically from year to year if the recipient continues to meet the university standards for graduation.

OHIO UNIVERSITY SCHOLARSHIPS

GRADUATE SCHOLARSHIPS. Available to graduate students who have maintained a high scholastic average. These awards cover the basic resident or non-resident registration fee. Applications should be filed with the Dean of the Graduate College, Ohio University, Athens, Ohio.

OHIO ACADEMY OF SCIENCE SCHOLARSHIPS. Available to winners in the Ohio Academy of Science Competition for high school seniors. Awards are based upon the general Ohio University requirements, and an approved rating in the National Science Talent Search Test or in a science test given by the Ohio Academy of Science.

REGULAR FRESHMAN SCHOLARSHIPS. Awarded to high school graduates on the bases of class rank, score on the Ohio State Psychological Examination, need, character, recommendations, and high school activities.

REGULAR UPPERCLASS SCHOLARSHIPS. Available to students who have completed at least two semesters in residence at Ohio University. A point-hour ratio of 3.0 (B) is required to attain such an award. Also used as a basis are need and college activities.

SPECIAL MUSIC SCHOLARSHIPS. Available in limited number to students with special ability and promise in music. These scholarships provide for remission of the general registration fee and for the remission of the applied music fees. Interested students should write directly to the Director, School of Music, Ohio University, Athens, Ohio.

HONOR SCHOLARSHIPS. Awarded to students who have had superior records in high school, but who show no evidence of financial need. These awards are based entirely upon past academic record and test scores. These awards are valued at a very nominal figure and both freshmen and upperclass students are eligible.

EDUCATION SCHOLARSHIPS. Available in limited number to those who plan to enter or are in the College of Education. These scholarships are based upon the general scholarship requirements.

FOREIGN TUITION SCHOLARSHIPS. Each year a number of scholarships are awarded to students from foreign countries. These scholarships are based upon past academic records and financial need. The scholarship covers the out-of-state fee as well as the general registration fee.

BRANCH SCHOLARSHIPS. Each of the six Ohio University Branches makes available to students entering the cadet teaching curriculum scholarships which cover all registration fees except library, laboratory, and miscellaneous fees. These scholarships are based upon the general scholarship requirements.

OTHER SCHOLARSHIPS

AMERICAN BANKER'S ASSOCIATION SCHOLARSHIP. The American Banker's Association Foundation for Education in Economics allocates annually a \$250 loan scholarship to the College of Commerce. This loan scholarship is awarded to a deserving student of senior rank or above whose major course is in banking, economics, or related subjects.

FULBRIGHT OR MARSHALL SCHOLARSHIPS. Students who are interested in applying for Fulbright or Marshall Scholarships should consult Dr. B. A. Renkenberger, Chairman, Foreign Study Committee, Ohio University, Athens, Ohio. Application blanks are available at the opening of the academic year each September. Only graduate students are eligible for these awards.

RHODES SCHOLARSHIPS. Men who have completed their sophomore year at Ohio University are eligible to compete for the Cecil Rhodes Scholarship, tenable for three years at Oxford University, England, with a stipend of \$2,000 each year. These scholarships are awarded on the combined bases of character, scholarship, athletics, and leadership in collegiate activities. Persons desiring information or application blanks should direct their communications to Dr. Paul G. Krauss, Ohio University, Athens, Ohio.

LOAN FUNDS

Ohio University has a number of loan funds to which students may apply for financial assistance.

Freshman and upperclass students are required to guarantee their loans by a promissory note. It is required that all students secure a co-signer for this note, preferably one of their parents, regardless of the student's age.

Inquiries and applications should be directed to the Director of Student Financial Aids, Ohio University, Athens, Ohio.

ALUMNI LOAN FUND. A number of alumni and friends of Ohio University have contributed over \$8,000 for loan purposes. Loans are granted up to a maximum amount of \$450.

WILLIAM HENRY FENZEL LOAN FUND. To meet the need of students for short term loans (30, 60, 90 days), an initial gift of \$1,000 was made to the University by Professor William H. Fenzel. Interest received from loans made, and additional annual gifts by the donor, will accumulate over the years to make a substantial amount available. The donor has deposited securities with the Ohio University Fund, Inc. to enable it to borrow \$25,000; thus, a total fund of \$26,000 has been made available for short term loans to students.

KELLOGG FOUNDATION LOAN FUND. The W. K. Kellogg Foundation of Battle Creek, Michigan, has made available the sum of \$2,000 to be used as a loan fund for medical technology students during their year at Mount Carmel Hospital in Columbus. (See "Medical Technology" under ZOOLOGY.)

LICHTER FOUNDATION LOAN FUND. The Lichter Loan Fund will grant loans to upperclass students only. Primary consideration is given to the student's scholastic record. However, account will also be taken of the applicant's need, of his character, and of his professional promise.

To receive favorable consideration, an applicant must:

1. Be endorsed as to character and personality by (a) two persons of some standing in the community in which he has resided who have known the applicant at least five years, one of whom preferably should be an alumnus of the university; (b) the principal or headmaster of the high school or preparatory school, or the president or dean of the college or university previously attended; (c) the registration officer or head of the college in which he is enrolled.
2. Be in good health, and furnish upon request a certificate from a physician to that effect.
3. Submit a statement of his financial needs and such other information as the Foundation may deem necessary, on the application form of the Foundation, such application to have the approval of his parent or guardian.
4. Be prepared upon request to furnish such life insurance as collateral as may be required by the Foundation.

A recipient of a loan will be required to sign a promissory note for each sum received. The notes will begin to bear interest at the rate of 3 per cent per annum, payable semi-annually, one year after graduation, or after leaving the University for other reasons. Should the applicant, for reasons satisfactory to the Foundation, postpone entering upon his earning career, he may apply for deferment of the date of the beginning of interest until one year after entering upon his earning career.

One year after leaving the university, and annually thereafter, the recipient of a loan will be required to consult with the Lichter Foundation for the purpose of establishing a program of payment of the notes commensurate with his earning capacity. He will be required, on these

occasions, to inform the Foundation of his whereabouts, the character of the work in which he is engaged, and the remuneration he is receiving.

In general it will be the policy of the Foundation to make loans to students who have completed at least one year of residence in college with a good academic record. In exceptional cases, applications will be considered from a student after one semester of residence. Applications will be considered from students entering college in special cases, in which the applicant shall have met, with high standing, all entrance requirements and shall present references and records of previous attainments of the highest order.

HENRY STRONG EDUCATIONAL FOUNDATION LOAN FUND. Loans are granted to qualified upperclassmen under twenty-five years of age. Interest is between 3 and 5 per cent per annum, and interest begins to accrue at graduation or termination of schooling. Repayment of the principal and interest is made during a four-year period after graduation or termination. Loans up to \$600 an academic year are available.

MEL WEINBERG MEMORIAL LOAN FUND. In memory of their son, Mr. and Mrs. Jerome M. Weinberg have contributed \$500 for the establishment of this fund. Its purpose is to make available to juniors or seniors of demonstrable need small loans to be repaid within two years after graduation. The maximum sum to be loaned is \$250.

G. FRANKLIN WHITE STUDENT LOAN FUND. This fund of \$5,000 was provided by the will of the late Dr. G. Franklin White. Preference is given to students preparing to teach, and to pre-medical students. Preference is also given to residents of Ohio, although non-residents are not barred from applying for loans.

WOMEN'S LEAGUE LOAN AND SERVICE FUND. The Women's League of Ohio University maintains a loan fund for women students. A sum not to exceed \$450 may be borrowed by a student who has spent at least one year on the campus. A co-signer, preferably a parent, is required.

JAMES P. PORTER LOAN FUND. Students majoring in Psychology are eligible to apply for a loan from the James P. Porter Loan Fund. The maximum amount a student may borrow from this fund is \$50, and the student must have the approval of the Psychology Department or one of its representatives.

EMERGENCY LOAN FUNDS

ALPHA PHI OMEGA LOAN FUND. Delta Gamma Chapter of Alpha Phi Omega, national scouting service fraternity, has established a loan fund of \$50. Scouts or former scouts may borrow up to \$15 from this fund to meet financial emergencies. A service charge of 25 cents is made for a thirty day loan.





MEN'S UNION EMERGENCY LOAN FUND. The Men's Union Governing Board, which is the governing organization representing all men on campus, has set up a loan fund with a principal amount of \$2,500. Loans not exceeding \$78 are made to male students to meet financial emergencies. Loans are not made for expenses which might reasonably be anticipated by the student. A service charge is collected on loans from this fund.

WOMEN'S LEAGUE SHORT TERM LOAN FUND. The Women's League, in addition to its long-term loan program, has set up a loan fund for women on a short-term basis. A maximum of \$78 may be borrowed for a thirty day period. A service charge is collected on loans from this fund.

STUDENT COUNCIL LOAN FUND. The Student Council has established a loan fund in the amount of \$750 to be used as a short-term loan fund. Loans not exceeding \$78 are made to male students to meet financial emergencies. Loans are not made for expenses which might reasonably be anticipated by the student. A service charge is collected on loans from this fund.

THE NATIONAL DEFENSE EDUCATION ACT LOAN FUND

Loans are made available through the National Defense Education Act Loan Fund to needy and outstanding students who are willing to take the responsibility of such a loan.

Special consideration is given to students who express a desire to teach, or to students who are interested in the Sciences, Mathematics, Engineering, or Modern Foreign Languages.

Students may borrow up to \$1,000 per year. Interest is at 3 per cent per year and interest begins one year after the student has ceased to pursue a full-time course of study. Repayment begins one year after a student is out of school and ends eleven years thereafter.

Up to one-half of any loan plus interest is cancelled for service as a full-time teacher in a public, elementary, or secondary school at the rate of 10 per cent of the amount of the loan plus interest for each complete academic year of such service.

The loan must be evidenced by a note and a co-signer is usually required by the Ohio University Loan Fund Committee.

Further information and applications can be obtained by writing to the Director of Student Financial Aids, Ohio University, Athens, Ohio.

HEALTH SERVICE FUND

DELLA HIXSON HEALTH SERVICE FUND. Prompted by a deep interest in physical welfare, the late Mrs. Della Connett Hixson, '97, bequeathed a sum of money to the university, the annual interest on which, approximately \$700, is to be used for the treatment and hospitalization

of students who are financially unable to provide such service for themselves or whose families cannot defray these expenses. The fund is administered by a committee composed of the Dean of Women (chairman), the Dean of Men, and the Director of the University Health Service.

PART-TIME EMPLOYMENT

Every effort is made to secure employment for those students whose resources are not adequate for entire self support and who request aid. The placements are both on and off campus, and fall into three general categories: (1) board jobs in various university dining halls; (2) part-time work as student assistants in university departments and offices; (3) part-time employment in Athens business establishments and homes. The job referrals are based upon: (1) cumulative grade average, (2) need, (3) personal qualifications, (4) past experience, and (5) free time. For freshmen, high school records and recommendations are considered. All board job recipients must have a lung x-ray.

PRIZES AND AWARDS

Announcement of the winners and presentation of the following prizes and awards are made at the Honors Day Convocation, usually held in April. The awards have been established, primarily, for the recognition of high scholastic achievement. Complete descriptions and other information relating to them may be obtained from the Chairman of the Committee on Honors Program and Awards.

In the listing below, the name of the prize or award is followed, in parentheses, by the field in which it is given and its amount or nature; a designation of those eligible for it; and by the name of the donor, if the latter is not indicated by the name of the award.

A. A. ATKINSON AWARDS. (Physics and electrical engineering, \$10 and \$5 in each.) Seniors. Established by the late Dean A. A. Atkinson, '91, of the College of Applied Science.

AIR FORCE R.O.T.C. AWARD. (General scholarship, \$25.)

ALPHA DELTA PI SCHOLARSHIP PRIZE. (General scholarship, \$25.) Junior girl.

ALPHA GAMMA DELTA SPEECH CORRECTION AWARD. (Speech correction, \$50.) Senior major expecting to continue graduate work in the field.

ALPHA LAMBDA DELTA (NATIONAL CHAPTER) SENIOR AWARD (BOOK) AND HONOR CERTIFICATES. (General scholarship.) Senior rank and membership in awarding organization.

ALPHA LAMBDA DELTA (LOCAL CHAPTER) JUNIOR AWARD. (General scholarship, \$10.) Junior rank.

AMERICAN CHEMICAL SOCIETY (UPPER OHIO VALLEY SECTION) SOPHOMORE AWARDS. (Chemistry, reference books.)

AMERICAN INSTITUTE OF CHEMISTS (OHIO CHAPTER) SENIOR AWARD. (Chemistry, bronze medal.)

BETA ALPHA PSI SCHOLARSHIP AWARD. (General scholarship, certificate.) Senior.

BORDEN FRESHMAN PRIZE. (General Scholarship, \$200.) Student with the highest scholastic average during his freshman year.

CHI OMEGA ECONOMICS PRIZE. (Economics, \$25.) All women.

CLEVELAND BOBCAT CLUB AWARD. (General scholarship, \$25.) Freshman boy from Cuyahoga County.

DELTA PHI DELTA AWARDS. (Space arts and fine arts.) To a freshman in the former, \$25; to two seniors in the latter, \$15.

DELTA SIGMA PI SCHOLARSHIP PRIZE. (Commerce, key.) Male student who upon graduation ranks highest for entire course in commerce and business administration.

DELTA UPSILON EDUCATIONAL FOUNDATION AWARD.

DICK DE LA HAYE HUGHES BAND AWARD. (Band, \$60.) Junior. Established by Mr. M. D. Hughes, '12, and Mrs. Hughes as a memorial to their son.

DOUGAN VARSITY BASEBALL AWARD. (Baseball, \$60.) Varsity player. Established by Dr. Stanley Dougan, '14, and Mrs. Nelle Stokes Dougan, '16.

EAST GREEN SCHOLARSHIP AWARDS.

EMERSON POEM PRIZES. (Original poetry, \$180 total.) Students or graduates of Ohio University. Established by Mr. W. D. Emerson of the Class of 1833. Awarded biennially. Entries for the next competition must be in the hands of the President of the University before the opening of the second semester of 1960-61.

EVANS LATIN PRIZES. (Latin, \$25 and \$12.50.) Students in the classical languages. Established by the Ohio University Alumni Association as a memorial to Dr. Dafydd J. Evans, '71, for many years professor of classical languages at Ohio University.

FRANCES McVICKER MAXWELL DEBATE AWARD. (Intercollegiate debate \$18.) Junior or senior.

FRANK B. GULLUM AWARD. (General scholarship, \$25.) Male student with highest scholastic record during first two semesters at Ohio University. Established by Delta Tau Delta fraternity in honor of Frank B. Gullum, '07, associate professor emeritus of chemistry.

FRESHMEN CHEMISTRY ACHIEVEMENT AWARD. (Outstanding progress, handbook.)

FRESHMEN MATHEMATICS ACHIEVEMENT AWARD. (Outstanding performance, book.)

GEORGE LeVALLEE AWARD IN CHEMISTRY. Senior. Established by the Upper Ohio Valley Section of the American Chemical Society, and granting junior membership in the Society.

HORN SENIOR COMMERCE PRIZE. (\$50.) June candidate for graduation, B.S.C. degree, with highest scholastic average in commerce subjects. Established by the late Mr. Clarence H. Horn, '01, former lecturer in commerce, and augmented as a memorial by his widow and son, Mrs. Sarah Murphy Horn, '00, and Robert H. Horn, '25.

INTER-DORMITORY COUNCIL AWARDS. Sophomore or junior women, service to dormitories, room payment for year.

IRMA E. VOIGT MEMORIAL AWARD OF SIGMA KAPPA. (Dramatic art and speech, \$25.) Senior girl participating in dramatic productions or in a related technical field. Established by Sigma Kappa sorority as a memorial to Dr. Irma E. Voigt, dean of women at Ohio University, 1913-1953.

J-CLUB AWARD. (General scholarship, key.) Junior man.

JOHN BAYARD THOMAS PREMEDIC PRIZE. (Zoology, \$60.) Junior or senior premedical student who has gained admission to a medical school. Established by Dr. Josephus Tucker Ullum, '98, as a memorial to his nephew, and augmented in 1954 by three of Dr. Ullum's sisters, Mrs. Mary Ullum Thomas, '96, Mrs. Margaret Ullum Stalder, '05, and Mrs. Charlotte Ullum Coultrap, '08.

JOSHUA R. MORTON AWARD IN CHEMISTRY. (Affiliate membership in American Chemical Society.) Major in chemistry. Established by the Ohio University Chemistry Club in honor of J. R. Morton, '05, professor emeritus of chemistry.

JULIA J. NEHLS HOME ECONOMICS AWARD. (\$25.) Junior girl majoring in home economics. Established by Kappa Delta sorority in honor of its adviser, Miss Nehls.

JUNIOR CLASS SCHOLARSHIP AWARDS. (General Scholarship, \$100.) Two junior students outstanding in scholarship and leadership.

MEN'S UNION GROUP AND INDIVIDUAL SCHOLARSHIP PRIZES. (General scholarship, trophies and keys.)

OHIO UNIVERSITY FUND, INC., AWARDS. (Scholarship.) Seniors who show outstanding ability and willingness to undertake scholarly work independently and on own initiative.

PANHELLENIC SCHOLARSHIP AWARDS. (General scholarship, plaques.) Sorority with highest scholastic average for the preceding two semesters. Established by the Panhellenic Association.

PANHELLENIC FOREIGN WOMAN STUDENT AWARD. (Scholarship and need, boarding privilege.) Foreign woman student. Established by the Panhellenic Association.

PEARL HEHN GAMERTSFELDER PHILOSOPHY PRIZE. (Philosophy, \$100.) Junior, or under special circumstances a senior, who through high scholarship and campus citizenship shows promise for a career in philosophy or a closely related field.

PHI ALPHA THETA A. T. VOLWILER MEMORIAL AWARD. (History, \$25.) Undergraduate member history major with promise of graduate study.

PHI ALPHA THETA SCHOLARSHIP AWARD. (Key.) Member for scholarship and service to chapter.

PHI BETA KAPPA HUMANITIES AWARDS. (Greek and other humanistic studies, \$150.) Juniors and seniors. Established by Dr. Anna Pearl McVay, '92.

PHI EPSILON PI MEMORIAL AWARD. (General Scholarship, \$25.) Veteran who attains highest scholastic standing for year.

PHI MU PLEDGE CLASS AWARD. (General scholarship, rotating plaque.) Sorority pledge class having highest scholastic average for first semester of the year.

PHI UPSILON OMICRON AWARDS. (Home economics.) Sophomore woman (cup) and senior woman (\$25).

PHI UPSILON OMICRON MERRILL PALMER PRIVILEGE AWARD. (Home Economics.) Provides the privilege of studying for one semester at the Merrill Palmer School in Detroit, Michigan. Awarded to students who have shown high scholarship and aptitude and interest in Family Life Education.

PHYSICS AWARD. (Handbook.) Outstanding sophomore Physics student.

RICHLAND COUNTY OHIO UNIVERSITY WOMEN'S CLUB AWARD. (General scholarship, \$25.) Richland County girl with highest scholastic average for five or six consecutive semesters.

SENIOR AWARD IN PHYSICS. Outstanding Applied Modern Physics major.

SIGMA ALPHA IOTA MUSIC PRIZE. (General scholarship, \$25.) Sophomore woman with a major in music.

SIGMA ALPHA IOTA NATIONAL HONOR CERTIFICATE. (General scholarship.) Senior woman, member of awarding organization, with the highest scholastic average.

SIGMA DELTA CHI SCHOLARSHIP AWARDS. (General scholarship and achievement certificates.) Highest five per cent of seniors in journalism, and most outstanding sophomore and senior man in journalism.

SINA SIDWELL ROGERS PRIZE IN FINE ARTS. (Art, \$30.) Junior or senior, member of Delta Phi Delta, national art fraternity. Established by Mrs. Elizabeth Sidwell Wagner as a memorial to her sister, Miss Sina Sidwell, '25.

SUPER GREEK PRIZES. (Greek language and classical culture, \$100 and \$50.) Juniors and seniors. Established by friends and former students of Dr. Charles W. Super, former president of Ohio University and classical scholar.

TAU BETA PI SENIOR AWARD. (Engineering, \$25.)

THE MELVIN WEINBERG MEMORIAL AWARD. (General scholarship, \$25.) Presented by Phi Sigma Delta Fraternity to sophomore in Fine Arts with highest cumulative average.

THETA SIGMA PHI AWARDS. (Journalism, certificates.) Two most outstanding senior women in journalism.

THOMAS COOKE McCRACKEN KAPPA DELTA PI SCHOLARSHIP AWARD. (Education, \$300.) Senior in Omega Chapter of Kappa Delta Pi or an alumnus of the Chapter, or a Senior in the College of Education, expecting to pursue graduate study in teacher preparation. Recipient selected on bases of scholarship, personality and leadership qualities, and promise of high attainment in educational service. Established in honor of Dr. T. C. McCracken, dean emeritus of the College of Education, and for many years national president of Kappa Delta Pi.

VARSITY "O" SENIOR AWARDS. (Scholarship and citizenship plaque.) Member of each varsity sports squad.

VICTOR WHITEHOUSE INTERNATIONAL CLUB AWARD. (\$50.) To foreign student on basis of scholarship, activities, and need.

WOMAN'S MUSIC CLUB PRIZE. (Music, \$25.) A music major. Established by the Woman's Music Club of Athens.

WOMEN'S LEAGUE SCHOLARSHIP AWARDS. (General scholarship and need.) (1) Sophomore girl with highest two-consecutive-semester record, \$25; (2) women students with 4.0 scholastic average for second semester of year preceding the awarding or first semester of year in which award is made, certificates. (3) residence in dormitory for foreign woman student for a year.

ZETA TAU ALPHA PRIZE IN FINE ARTS. (General scholarship and merit, \$25.) Sophomore in College of Fine Arts.

CULTURAL OPPORTUNITIES

UNIVERSITY LIBRARY

Books are an important part of an educational experience at Ohio University. The University Library is organized to provide books for study and research and to promote an appreciation for reading as one of the cultural assets of later life.

The collections are housed in the Edwin Watts Chubb Library, erected in 1930 and named in honor of a former dean of the College of Arts and Sciences. The main collection of more than 285,000 volumes, including periodical sets, documents, and pamphlets, is shelved chiefly in the stacks to which all students have direct access. A reference collection of several thousand volumes is in the Reading Room and current issues of more than 1,300 periodicals are in the adjoining Periodical Room. Newspapers from the principal cities of Ohio and elsewhere are available in the Philomathean Room nearby, which also contains a selection of standard literature.

Books reserved in courses at faculty request are on the ground floor. The Athenian Room serves as a history reading room; selected documents and maps are on display illustrating the history of the University and the state. Other special subject reading rooms are being developed. A browsing room contains books of general interest for pleasure reading. A collection of sound recordings is available for use in the Irvine Room and here is kept the library's collection of microfilm which includes files of newspapers printed in Athens from 1825. A microcard reader is also available here.

In the Children's and Young People's Room an extensive collection of books for younger readers provides service to the children of Athens and is used as a laboratory by students in education. Small collections of specialized material are administered by the College of Commerce, School of Music, Department of Chemistry, Department of Physics, and the Hudson Health Center. A new departmental library for the College of Education has been opened in the education building. Jefferson Hall Library serves as an undergraduate library for the East Green.

During regular sessions the Library is open daily and throughout the evenings; on weekends and during vacations shorter hours are observed.

CONCERT SERIES

The University sponsors two concert series, the University Artist series and the University Chamber Music Series. The former has brought many of the world's greatest musicians to the campus. The 1959-1960 series included Marian Anderson, Nathan Milstein, Byron Janis, and the Lamoureux Symphony Orchestra of Paris. Ballet and opera companies appear frequently. The Chamber Music Series annually presents such internationally famed groups as the Budapest and Julliard Quartets, and the Alberneri and Pasquier Trios. All concerts are presented without charge to the student body.

GUEST ARTISTS AND SPEAKERS

In addition to bringing many distinguished persons to the campus for limited engagements, the University each year invites one or more guest artists to spend periods of time during which they not only lecture or appear in recitals but counsel informally with interested students.

Among the visitors who have recently been in residence for consultation and instruction are Dr. Ernst von Dohnanyi, composer, conductor, and pianist; Maurice Eisenberg, cellist; Charles Burchfield and Ben Shahn, artists; Marc Connelly, playwright; Charles Laughton and Blanche Yurka, of stage and screen; Jean Renoir, motion picture director; Clare Leighton, printmaker; and Charles Allen Smart, author of a best seller, "R.F.D.," and other novels.

Guest speakers have included men and women eminent in such fields as business, education, the fine arts, science, government, and foreign affairs.

FINE ARTS PROJECTS

The College of Fine Arts plans many events of a cultural nature each year. In addition to the numerous concerts and plays which are presented by the students and faculties of the School of Dramatic Art and Speech and the School of Music, the two schools have cooperated in campus-wide production of "Roberta," "Girl Crazy," "Song of Norway," "Brigadoon," "Fledermaus," "Finian's Rainbow," "Kiss Me, Kate," "Knickerbocker Holiday," "Oklahoma," and "Pajama Game".

Since 1943, the School of Painting and Allied Arts has sponsored the Ohio Valley Oil and Water Color Show, a competition open to artists of Ohio, Illinois, Indiana, Kentucky, West Virginia and Pennsylvania. The University is building a permanent collection of paintings, many of which are purchased from this show.

ART EXHIBITS

The School of Painting and Allied Arts maintains an art gallery in the Edwin Watts Chubb Library in which a program of exhibitions is conducted throughout the year. Other exhibitions are scheduled from time to time in other parts of the library and in the University Center.

THE HELEN MAUCK GALBREATH MEMORIAL CHAPEL

The Chapel was given to the University by Mr. John W. Galbreath, trustee and prominent alumnus, in memory of his wife, a graduate of the class of 1919. Dedicated in 1958, it is the function of the Chapel to aid in serving the religious needs of all faiths and denominations.

UNIVERSITY MUSEUM

The University Museum of Natural History, oldest of its kind west of the Allegheny Mountains, houses more than 80,000 specimens, including specimens from Dr. S. P. Hildreth's famous collection of rocks and minerals dated 1815 and 1825.

Many science collections have gravitated to the museum through the efforts of local groups, societies, and individuals. These have yielded series of fossils, rocks, minerals, plants, and animals. In addition, there are on display items of archaeological, ethnological, and historical interest.

The museum is housed in the basement of Alumni Memorial Auditorium and is open to the general public Monday through Friday, 1 to 3 p.m.; Saturday, 9 a.m. to 12 noon; Sunday and at other times upon request to the curator, Dr. A. H. Blicke.

RECREATIONAL OPPORTUNITIES

THE UNIVERSITY CENTER

The University Center provides facilities for the cultural, social, and recreational benefit of students. The Center, located opposite the north gateway to the campus, contains three beautiful lounges, a large ballroom, dining rooms, cafeteria, snack bar, library and record listening room, television, conference rooms, student government and publications offices, and recreational areas for bowling, billiards, table tennis, and cards.

Club rooms for both men and women members of the university faculty are also located in this building.

The University Center is not only a place for fun and relaxation, but is also an educational workshop, where students can develop cultural interest, skills in human relations, and organizational efficiency during their out-of-class hours.

A faculty-student policy board controls the operation of the building, and an all student board directs the large and varied program provided by the Center for the benefit of the entire student body.

THE NATATORIUM

The Natatorium is a modern structure conveniently located adjacent to the main campus. The building is featured by a pool, 42 feet wide by 75 feet long, with six standard seven foot racing lanes and a rated capacity of 116 persons. The pool is equipped with submerged lighting, Olympic-style starting blocks, diving boards, and safety equipment.

The building contains locker rooms, dressing rooms, and spectator accommodations for about 1,000 persons.

The facilities of the Natatorium are available to students for both credit and recreational swimming.

GENERAL RECREATION

The Division of Physical Education and Athletics directs the intramural athletic program at Ohio University. This program includes competitive and physical recreational activities for men and women students.

Facilities at Ohio University for intramural athletics include a

gymnasium for men, a gymnasium for women, a natatorium, an ice skating rink, a game room and bowling alleys in the University Center, and extensive outdoor recreational areas. The men's athletic fields are equipped to handle ten softball games or seven touch-pass football games at one time. Women's athletic fields are available for intramural softball, hockey, archery, and soccer. Nineteen tennis courts are used interchangeably for men's and women's programs. Outdoor areas for basketball, horseshoe pitching, bowling on the green, and volleyball are also available to men and women.

The indoor practice building houses an ice skating rink, 85 feet by 190 feet, the first such college facility in the state. From November to April there are classes in beginning and advanced skating skills, in addition to recreational skating, and ice hockey.

Nearing completion is a \$2,000,000 Physical Education and Athletic Plant that will accommodate a diversified sports and activity program for men and women.

Intramural activities for men include touch football, basketball, track, golf, volleyball, handball, softball, tennis, badminton, bowling, horseshoes, wrestling, field days, soccer, swimming, and table tennis.

The Division of Physical Education and Athletics directs the varsity sports program which consists of football, baseball, basketball, track, soccer, wrestling, cross country, tennis, swimming, golf, ice hockey, and riflery.

Intramural activities sponsored by the Women's Recreation Association are open to all women and include hockey, archery, tennis, bowling, basketball, soccer, softball, golf, swimming, and ice skating.

The Women's Recreation Association owns a cabin in the wooded hills outside of Athens that is available to groups for outing activities.

The Dance Club, sponsored by the women's department of the Division of Physical Education and Athletics, presents an annual dance concert.

The Dolphin Club, a women's aquatic group, presents an annual water show.

The University Center is, as its name suggests, truly a center of recreational, social, and educational activities within most attractive surroundings.

Dramatic productions by the University Theatre and the University Playshop are scheduled at frequent intervals for the enjoyment of students and members of the local community.

Numerous dances, both formal and informal, are held during the year.

Under the sponsorship of the Men's Independent Association, feature movie productions are shown three nights each week in Memorial Auditorium.

Several of the local churches have social-religious programs that are designed for and enjoyed by large numbers of students.

Not many miles distant from Athens, and suitable as weekend diversions, are the attractions of four of the state's most scenic areas—

Dow Lake, just east of Athens; Lake Hope, in the heart of the Zaleski State Forest; the caves and gorges of the Hocking Park area; and Burr Oak Lake near Glouster, Ohio.

The 160 acre Dow Lake, within a 2,000 acre state park, will be used extensively by the university for outdoor education, group camping, aquatics, boating, and for research projects in conservation and natural resources.

STUDENT ACTIVITIES AND ORGANIZATIONS

SOCIAL POLICY

The students, faculty, and administrative officers of Ohio University and the community of Athens are united in their interest in maintaining a moral tone and a social pattern that is in keeping with good taste and acceptable social practice anywhere among educated people.

Ohio University has a long and interesting history. Succeeding generations of students who come to the University with varying backgrounds and social interests should enrich the traditions, social standards, prestige, and reputation of the University. The University expects students to exercise discerning judgment and to be personally responsible for absorbing and complying with the social patterns of the university community.

The student body, faculty, and administrative officers, therefore, will employ any reasonable means to control moral indiscretions and social behavior which is in bad taste.

CAMPUS AFFAIRS COMMITTEE

The Campus Affairs Committee is the official executive committee of extracurricular life, recognized and authorized by the President. It corresponds to the academic executive board of which the President is chairman. The two personnel deans, Dean of Men and Dean of Women, are the administration's permanent representatives on the committee and serve as co-chairmen, alternating annually as presiding officer. In addition to the two personnel deans, four faculty members, two men and two women, are appointed for three-year terms by the President. The five student members are elected each year. All of the Campus Affairs Committee student members are on the committee by virtue of their positions; namely, the president and two vice presidents of the Student Council elected by the campus at large, and the presidents of the Women's League and the Men's Union.

The Campus Affairs Committee is held responsible by the President for extracurricular policies, for allocation of the non-athletic portion of the student activity fee, for final decisions relative to new organizations on campus, for those activities growing out of student life which affect campus and public relationships, for the jurisdiction over rules and regulations in which both men and women are involved, and for any other matters which the President may refer to it.

STUDENT GOVERNMENT ASSOCIATIONS

THE STUDENT COUNCIL. The Student Council is an organization that includes among its purposes the fostering of a spirit of unity and loyalty to Ohio University and the coordination of all campus social and extra-curricular activities.

The Council is composed of the indicated officers or elected representatives of the following organizations:

President of Student Council	Interfraternity Council
Women's Vice President of Student Council	East Green Council
Men's Vice President of Student Council	Interdorm Council
Men's Union Governing Board	Panhellenic Association
Women's League	President of the Senior Class
Campus Religious Council	President of the Junior Class
	President of the Sophomore Class
	President of the Freshman Class

The council operates under a constitution of its own which has been approved by the Campus Affairs Committee. It has the delegated authority, with the approval of the Campus Affairs Committee, to consider, promote, and put into effect projects which pertain to student activities and, particularly, to promote a balanced campus-wide social program.

THE WOMEN'S LEAGUE. The Women's League, the all-women's organization, has an active membership of every regularly-enrolled woman student. The Women's League shares the Student Government Room in the Ohio University Center. The activities sponsored by the League consist of a Freshman Women's Party, receptions, teas, Co-ed Prom, and Leadership Conference. Each year the League awards a \$25 cash prize to the woman with the highest scholastic average extending over two semesters. In addition, it grants a resident scholarship to one foreign student.

THE MEN'S UNION. The Men's Union is an organization to which every regularly-enrolled male student automatically belongs. The Men's Union sponsors the Registration Hop in September, the annual Men's Leaders' Banquet, and many other projects. Throughout the year the Men's Union also sponsors activities designed to be broad enough in scope to include the interests of every man on the campus. Each semester the Men's Union makes an award of a gold medal to the man with the highest scholastic standing as well as five cups for group achievement.

PUBLICATIONS

The *Ohio University Post*, the student newspaper, is published four times a week. *The Athena*, a yearbook published under student editorship, appears toward the latter part of the spring semester. The editorial and business offices for both publications are located in the Ohio University Center.

Opportunities are provided for practical work in copy writing and editing, photography, salesmanship, accounting, and business and editorial management. Students are encouraged to make application for the various positions on the publications staffs through the respective editors and business managers.

There are also a number of salaried positions on both publications for qualified individuals. Applications for these positions are filed with the Dean of Men or the Dean of Women at certain announced times. The Campus Affairs Committee, in consultation with the faculty advisers, is responsible for the selection of salaried staff members and for the overall management of the publications.

Sphere is the Ohio University literary magazine. Issued annually or semi-annually, it publishes student poetry, fiction, essays, and photography. It has a considerable campus circulation and is widely exchanged with student literary magazines from other schools. The magazine is managed by students and cooperating faculty members.

DRAMATIC AND FORENSIC ORGANIZATIONS

THE UNIVERSITY THEATRE. The University Theatre serves both the University and the community by promoting the cultural and entertainment values which the legitimate theatre provides through participation of audience and performers. Production details of the presentation of four plays annually are managed, under faculty supervision, by students enrolled in courses in the School of Dramatic Art and Speech. Casts are chosen at public tryouts open to all students.

THE UNIVERSITY PLAYSHOP. The University Playshop is a producing group comprised principally of student directors, actors, and technicians who are enrolled in courses in the School of Dramatic Art and Speech. However, roles in Playshop productions are open to all students in the University. Playshop produces the "Great Play" series. Each year two full-length plays are given as a part of a four-year cycle designed to be representative of each of eight periods in the history of drama from the classical Greek and Roman to the American Theatre of the early nineteen hundreds.

THE OHIO VALLEY SUMMER THEATRE. The summer theatre, a joint project of the University and the Community of Athens, produces six plays each season and provides an opportunity for approximately twenty selected students to work and study full time in the theatre. Faculty members and townspeople work together with students in all phases of production.

THE MONOMOY SUMMER THEATRE. Ohio University leases the Monomoy Theatre in Chatham, Massachusetts on Cape Cod and operates it as a summer theatre for a ten week season of eight plays. The acting company is made up of students regularly enrolled in the University summer session and productions are under the direction of members of the University faculty.

VARSITY INTERCOLLEGIATE DEBATE. Ohio University is an active member of the Ohio Intercollegiate Debate Association for men and for women. Numerous opportunities for participation are provided by an extensive program of local practice debates, together with frequent intercollegiate debates both in tournaments and before audiences.

FIRST-YEAR DEBATE. First-year debate is open to freshmen and to upperclassmen who have not had previous experience in intercollegiate debate. Discussion meetings and practice debates are held on the question and selected teams take part in an intercollegiate first-year debate tournament.

ORATORY CONTEST. Ohio University is an active member of three state oratory associations. In February the State Oratorical Contest for Men is held, followed in March by the State Oratorical Contest for Women, and in May by the State Peace Contest in which men participate.

CONTESTS IN ORAL INTERPRETATION AND EXTEMPORANEOUS SPEAKING. Each year selected students represent the University in intercollegiate contests in oral interpretation and extemporaneous speaking sponsored by the Ohio Association of College Teachers of Speech. Students interested in trying out for either of these events contact Dr. L. C. Staats, Director of Forensics, in Room 303 of the Speech Building.

RADIO STATIONS WOUB-AM and WOUI-FM. Ohio University maintains laboratory stations WOUB and WOUI. WOUB, the 250 watt AM station, broadcasts on 1340 kc and has a range of approximately 30 miles. It broadcasts 17 hours a day, every day of the year. The University stations are non-commercial and educational. They provide radio students with practical experience in all aspects of broadcasting. Most of the responsibility for the operation of the stations and the preparation and production of the programs is in the hands of advanced students who work under close faculty supervision. In addition to the regular schedule, special events such as football games, lectures, and musical programs are broadcast through remote facilities of the stations. Many of the programs are beamed specifically to the citizens of Athens and the county, and are designed to acquaint them with the entire range of University activities.

THE TELEVISION LABORATORY. Closed circuit television equipment is available for laboratory and experimental work. Students enrolled in television courses are given practical experience in camera operation and the techniques of direction and production. The facilities of the laboratory are also used for the teaching of selected courses by television over the closed circuit campus facilities.

MUSIC ORGANIZATIONS

Membership, with or without academic credit, is open to all qualified men and women of the various schools and colleges of the University.

THE UNIVERSITY CHORUS. This is a large chorus of mixed voices which performs works from the standard choral repertoire. The Concert Choir, an organization of thirty singers, is selected from the membership of the University Chorus.

THE UNIVERSITY MEN'S GLEE CLUB. Among the activities of the club are several concerts each year on the campus, and participation in various traditional events. Occasional tours and radio broadcasts are scheduled.

THE UNIVERSITY WOMEN'S GLEE CLUB. In addition to its many activities on the campus, the club takes occasional trips in the spring.

THE UNIVERSITY BANDS. The University Bands are composed of three musical organizations—the Symphonic Band, which maintains a well-balanced instrumentation of selected musicians; the Varsity Band, which serves as a recreational-laboratory group; and the football Marching Band, which is composed of all members of the Symphonic Band in addition to selected players from the Varsity Band.

THE UNIVERSITY SYMPHONY ORCHESTRA. The orchestra has a complete, well-balanced instrumentation of seventy. Several concerts, using the standard symphonic repertoire, are given on the campus during the year and trips to near-by cities are occasionally made. Membership, either with credit or as an extracurricular activity, is open to all qualified men and women of the various schools and colleges of the University.

RELIGIOUS ORGANIZATIONS

YWCA. The Y.W.C.A. is an association with a Christian purpose. It is open to all women students on campus. Its program includes discussion groups on religion and world affairs, service projects to the State Hospital and Children's Home, worship services, speakers, and social events. Through its program and personal relationships it seeks to provide an opportunity for students to relate their faith to the problems they are encountering as college students in the twentieth century and to enable them to integrate their classroom learning with an understanding of the meaning of life.

YMCA. The Y.M.C.A. provides an all-campus religious activity for men. It includes a broad program of religious, social, and service functions. Discussion sessions, personal counseling, and worship services are integral parts of the Y.M.C.A. schedule.

The religious welfare and interests of students are fostered by various organizations sponsored by the churches of Athens or church-affiliated groups. See "Religious Societies" below.

CAMPUS RELIGIOUS COUNCIL. Representatives of the religious organizations constitute the Campus Religious Council. The council serves as a coordinating agency for the programs of the various groups listed, and initiates programs of an interfaith nature upon the campus. The council is composed of the adult advisers and two student representatives from each group.

RELIGIOUS SOCIETIES

These organizations are sponsored by Athens churches or church-affiliated groups. All are social as well as religious in character and activities. Unless otherwise indicated, they are open to both men and women.

BAPTIST-DISCIPLE STUDENT FELLOWSHIP (Northern Baptist-Disciple)

BAPTIST STUDENT UNION

CANTERBURY CLUB (Episcopal)

CHRISTIAN SCIENCE CLUB

EASTERN ORTHODOX CHRISTIAN FELLOWSHIP

GAMMA DELTA (Lutheran students—Missouri Synod)

HILLEL FOUNDATION (Jewish)

INTERVARSITY CHRISTIAN FELLOWSHIP (non-sectarian)

KAPPA PHI (Methodist women)

LUTHERAN STUDENT ASSOCIATION

NEWMAN CLUB (Catholic)

PHI CHI DELTA (Presbyterian women)

SIGMA THETA EPSILON (Methodist men)

UNITARIAN YOUTH FELLOWSHIP

WESLEY FOUNDATION (Methodist)

WESLEY PLAYERS (Methodist)

WESTMINSTER FOUNDATION (Presbyterian)

SCHOLASTIC AND SOCIAL ORGANIZATIONS

HONOR SOCIETIES

These organizations confer membership in recognition of high scholastic attainment and the fulfillment of other constitutional requirements. Some of the societies recognize and encourage the development of a well-rounded personality and leadership and service qualities in addition to academic achievement. Unless otherwise indicated, membership is open to both men and women.

The first date is the founding date; the second the date the Ohio University chapter was established. Organizations are listed in the order of establishment at Ohio University.

TAU KAPPA ALPHA. 1908; 1916. Forensics.

PHI UPSILON OMICRON. 1909; 1921. Home Economics (women).

KAPPA DELTA PI. 1911; 1923. Education.
 PHI BETA KAPPA. 1776; 1929. Liberal Arts.
 KAPPA TAU ALPHA. 1910; 1929. Journalism.
 EPSILON PI TAU. 1929; 1934. Industrial Arts Education.
 PHI ETA SIGMA. 1923; 1936. Freshman Scholarship (men).
 MORTAR BOARD. 1918; 1938. Student Leadership and Service (senior women).
 ALPHA LAMBDA DELTA. 1924; 1941. Freshman Scholarship (women).
 BETA GAMMA SIGMA. 1913; 1951. Commerce.
 OMICRON DELTA KAPPA. 1914; 1951. Student Leadership and Service (men).
 TAU BETA PI. 1885; 1953. Engineering (men).
 PHI KAPPA PHI. 1897; 1956. All Academic Fields.
 PI GAMMA MU. 1924; 1956. Social Science.
 SIGMA PI SIGMA. 1921; 1958. Physics.

NATIONAL PROFESSIONAL, RECOGNITION, OR DEPARTMENT SOCIETIES

These organizations confer membership in recognition of achievements in specific fields of education or service. Unless otherwise indicated, membership is open to both men and women.

Accounting	BETA ALPHA PSI
Art	DELTA PHI DELTA
Band	KAPPA KAPPA PSI
Band (women)	TAU BETA SIGMA
Campus Service (men)	ALPHA PHI OMEGA
Campus Service (men)	CIRCLE K
Campus Leadership (women)	CHIMES
Campus Leadership (men)	J CLUB
Classical Languages	ETA SIGMA PHI
Commerce (men)	DELTA SIGMA PI
Dramatics	NATIONAL COLLEGIATE PLAYERS
Education	OHIO STUDENT EDUCATION ASSOCIATION
Education (graduate men)	PHI DELTA KAPPA
Engineering	O. U. SOCIETY OF CHEMICAL ENGINEERS
Engineering	AMERICAN INSTITUTE OF ELECTRICAL ENGINEERS; INSTITUTE OF RADIO ENGINEERS
Engineering	AMERICAN SOCIETY OF MECHANICAL ENGINEERS
Engineering	OHIO SOCIETY OF PROFESSIONAL ENGINEERS
German	DELTA PHI ALPHA
History	PHI ALPHA THETA
Home Economics (women)	HOME ECONOMICS CLUB
Journalism (women)	THETA SIGMA PHI

Journalism (men)	SIGMA DELTA CHI
Management	SOCIETY FOR THE ADVANCEMENT OF MANAGEMENT
Military (men)	ARNOLD AIR SOCIETY
Military (men)	PERSHING RIFLES
Military (men)	SCABBARD AND BLADE
Music (women)	SIGMA ALPHA IOTA
Music (men)	PHI MU ALPHA
Music	MUSIC EDUCATION CONFERENCE
Photography	KAPPA ALPHA MU
Physics	AMERICAN INSTITUTE OF PHYSICS
Psychology	PSI CHI
Radio	ALPHA EPSILON RHO
Sociology	ALPHA KAPPA DELTA
Speech Therapy	SIGMA ALPHA ETA
Student Activities (men)	BLUE KEY

SPECIAL INTEREST SOCIETIES

Departmental and other organizations that are not affiliated with national groups.

ALPHA OMEGA UPSILON	O. U. BAND
ALPHA TAU DELTA (Agriculture)	O. U. FINANCE CLUB
ARCHITECTURAL SOCIETY	O. U. HOCKEY CLUB
CAMERA CLUB	O. U. ICE HOCKEY CLUB
CHEMICAL SOCIETY	O. U. JAZZ FORUM
CHILDHOOD EDUCATION CLUB	O. U. JUDO CLUB
CHI PSI OMEGA (Botany-Zoology)	O. U. RADIO CLUB
COLLEGIATE BROADCASTING CLUB	O. U. RIFLE CLUB
DER DEUTSCHE VEREIN (German)	ORCHESIS (Dance)
DOLPHIN CLUB (Swimming)	RUSSIAN LANGUAGE CLUB
EARTH SCIENCE CLUB	SECRETARIAL CLUB
EPSILON PI TAU (Industrial Arts)	SOCIOLOGY CLUB
FINNETTES (Swimming)	STUDENT PRESS CLUB
FLYING "O" (Sports)	SYMPHONY ORCHESTRA
FOOTLIGHTERS (Dramatics)	Varsity "O" (Sports)
GRADUATE CLUB	VETERANS CLUB OF OHIO U.
GREEN AND WHITE CHESS CLUB	WOMEN'S RECREATION ASSOCIATION
INTERNATIONAL CLUB	WOMEN'S TENNIS CLUB
KLUB SIELLA (Medical Technology)	YOUNG DEMOCRATIC CLUB
L'ALLIANCE FRANCAISE	YOUNG REPUBLICAN CLUB
LA TERTULIA	

SOCIAL FRATERNITIES

These self-perpetuating groups organize the social life of their members as a contributing factor to their educational program. Membership is upon invitation only.

INTERFRATERNITY COUNCIL (MEN)*

- BETA THETA PI (1839)†—Beta Kappa Chapter, 1841
 DELTA TAU DELTA (1859)—Beta Chapter, 1862
 PHI DELTA THETA (1848)—Ohio Gamma Chapter, 1868
 PHI KAPPA TAU (1906)—Beta Chapter, 1909
 LAMBDA CHI ALPHA (1909)—Alpha Omega Chapter, 1918 (inactive 1937-1950)
 THETA CHI (1856)—Alpha Tau Chapter, 1925
 TAU KAPPA EPSILON (1899)—Alpha Beta Chapter, 1927
 PHI KAPPA (1889)—Psi Chapter, 1929
 PI KAPPA ALPHA (1868)—Gamma Omicron Chapter, 1930
 PHI EPSILON PI (1904)—Alpha Rho Chapter, 1933
 PHI SIGMA DELTA (1910)—Alpha Delta Chapter, 1948
 ACACIA (1904)—Ohio Trowel Chapter, 1949
 SIGMA CHI (1855)—Delta Pi Chapter, 1949
 ALPHA PHI ALPHA (1906)—Phi Chapter, 1950
 SIGMA NU (1869)—Zeta Mu, 1951
 SIGMA ALPHA EPSILON (1856)—Ohio Gamma Chapter, 1953
 PHI KAPPA SIGMA (1850)—Beta Zeta Chapter, 1953
 DELTA UPSILON (1834)—Ohio Chapter, 1955
 TAU GAMMA DELTA—Local, 1957

PANHELLENIC ASSOCIATION (WOMEN)*

- PI BETA PHI (1867)†—Ohio Alpha Chapter, 1889
 ALPHA GAMMA DELTA (1904)—Zeta Chapter, 1908
 ALPHA XI DELTA (1893)—Pi Chapter, 1911
 CHI OMEGA (1895)—Tau Alpha Chapter, 1913
 ALPHA DELTA PI (1851)—Xi Chapter, 1914
 ZETA TAU ALPHA (1898)—Alpha Pi Chapter, 1922
 PHI MU (1852)—Delta Delta Chapter, 1927
 SIGMA KAPPA (1874)—Beta Upsilon Chapter, 1949
 ALPHA EPSILON PHI (1909)—Alpha Phi Chapter, 1951
 KAPPA DELTA (1897)—Gamma Eta Chapter, 1955
 THETA PHI ALPHA (1912)—Delta Chapter, 1957
 KAPPA ALPHA ALPHA (local), 1955

*Listed in order of establishment at Ohio University.

†Year of founding of national organization.

INDEPENDENT GROUPS

These organizations are for students who are not affiliated with Greek-letter social groups.

CHI KAPPA NU

KAPPA PSI PHI

MEN'S INDEPENDENT ASSOCIATION, 1938

STUDENT GOVERNMENT ASSOCIATIONS AND CLASS ORGANIZATIONS

BIDDLE HALL HOUSE COUNCIL

BOYD HALL HOUSE COUNCIL

BRYAN HALL HOUSE COUNCIL

BUSH HALL HOUSE COUNCIL

CAMPUS AFFAIRS COMMITTEE

CLASS, SENIOR

CLASS, JUNIOR

CLASS, SOPHOMORE

CLASS, FRESHMAN

EAST GREEN INTER-DORM COUNCIL

GAMERTSFELDER HALL HOUSE

COUNCIL

HOWARD HALL HOUSE COUNCIL

INTER-DORMITORY COUNCIL

INTERFRATERNITY COUNCIL

INTERFRATERNITY PLEDGE COUNCIL

JEFFERSON HALL HOUSE COUNCIL

JOHNSON HALL HOUSE COUNCIL

JUNIOR PANHELLENIC ASSOCIATION

LINDLEY HALL HOUSE

ORGANIZATION

MEN'S UNION GOVERNING BOARD

O. U. CENTER DORMITORY COUNCIL

O. U. CENTER PROGRAM BOARD

PANHELLENIC ASSOCIATION

PERKINS HALL HOUSE COUNCIL

READ HALL HOUSE COUNCIL

SCOTT QUAD COUNCIL

SHIVELY HALL HOUSE COUNCIL

STUDENT COUNCIL

TIFFIN HALL HOUSE COUNCIL

VOIGT HALL HOUSE ORGANIZATION

WASHINGTON HALL HOUSE COUNCIL

WOMEN'S LEAGUE ASSEMBLY

WOMEN'S LEAGUE SENATE

UNIVERSITY REGULATIONS

Admissions

Fees

Expense Estimate

Registration

Scholarship

Grade Reports

Honors

Probation

Transcripts

Attendance and Absences

Graduation

UNIVERSITY REGULATIONS

ADMISSIONS

GENERAL ADMISSION INFORMATION. All correspondence pertaining to the admission of a student to the University should be addressed to the Director of Admissions and University Examiner, Ohio University, Athens, Ohio.

Students are accepted for admission to the University for the fall semester, the second semester which begins in February, and the summer sessions.

Application for admission consists of the presentation of an application blank filled in by the applicant, official transcripts of all high school or college credit, two small photographs of the applicant, a vaccination and immunization blank certified by a physician, and a medical history blank filled in by the applicant and completed by a physician. These documents when submitted become the permanent property of the University and are never returned to the applicant.

The application for university housing is a separate procedure. The assignment of room space by the Director of Housing is contingent upon ultimate acceptance of the applicant by the Admissions Office and is not to be taken as a commitment in favor of acceptance.

The application blank for admission and the transcript of high school record may be sent in any time after completion of the junior year and the applicant then will be given provisional acceptance or denial. Final admission is granted upon satisfactory completion of the secondary school course.

If the applicant is transferring from another university, he must request the registrar of that university to forward an official transcript of college record directly to the Director of Admissions, Ohio University. If more than one school has been attended, transcripts from each will be required.

It is important to get all entrance credentials to the Director of Admissions early enough so that the applicant can be informed concerning his admission and the opening of the session he wishes to enter. If accepted, the applicant will be forwarded information which he will need for registration at the University. For the fall semester, applications are usually not accepted after August 1, and for the second semester, after January 10.

SUBJECTS IN HIGH SCHOOL. Because Ohio University accepts graduates of first-grade high schools in Ohio, no particular pattern of high school subjects is required for admission. However, since prospective students frequently ask what subjects they should take in high school, a suggestion is offered as to a reasonable minimum distribution.

Prospective students are urged to complete elementary algebra and plane geometry in high school. Even though not required for admission, they must be completed to qualify for graduation from Ohio University. If completed at Ohio University, credit is not allowed toward a degree and the courses are offered only in summer sessions.

The following distribution of subject matter meets the specific University College requirements (see University College section of the catalog) and prepares the student for the pursuit of any curriculum in the University:

English	3 or 4 units
Foreign language	2 units
Social sciences	2 units
(One of which should be United States history and civics.)	
Laboratory sciences	2 units
(Biology, botany, zoology, chemistry, or physics preferred. General science and senior science do not meet University College requirements. Prospective engineering students should take chemistry and physics.)	
Algebra	1 unit
Plane geometry	1 unit
(Prospective engineering students should take advanced algebra, solid geometry, and trigonometry.)	
Electives	4 or 5 units
Total	16 units

THE TESTING PROGRAM. Each new student is required to take the college ability test. A notice of the date, place, and hour is included in his admission credentials. A student who fails to take the college ability test at the appointed time, or who applies too late to take the test at the appointed time is required to take the test at a later date and to pay an additional fee of \$2. A student transferring to Ohio University from another college is not required to take the test if he has had the Ohio State Psychological Examination or American Council Examination at that college and the record of the test is on the transcript from the college.

In addition to the college ability test, an English placement test, a reading examination, and a mathematics achievement test are administered to all freshmen. Additional information regarding the testing program is given under the heading "Testing and Vocational Counseling Service," and "University College."

A. C. T. PROGRAM. Ohio University recommends that the student who plans to enter college as a freshman in 1960 complete the American College Testing Program. All students living in Ohio will be notified through their high schools about the program and the tests will be administered at special testing centers on the same date.

These tests will develop information for the individual student and Ohio University will also use the test results for purposes of classification and placement. Any student who will graduate in the lowest third of his high school class will be required to take this or a similar test to determine his admission status.

RESIDENTS AND NONRESIDENTS OF OHIO. The scholastic requirements for admission and the general registration fee for non-residents of Ohio are higher than for residents of the state.

1. No student shall be considered eligible to register in the University as a resident of Ohio unless he has had bona fide domicile in the state twelve consecutive months before he registers at the University. There is a strong presumption that one who comes into the state to attend college has a temporary residence, not a domicile.
2. No student whose domicile was outside Ohio in the year preceding his original enrollment in the University shall be considered a resident unless it can be clearly established by him that his former domicile has been abandoned and a new domicile established in Ohio and maintained for at least twelve consecutive months. No application for residence of one whose legal residence is not determined by his parents or legal guardian can be considered until the applicant is 22 years of age.
3. No student whose domicile was outside Ohio at any time after his original enrollment in the University shall be considered a resident unless he has established his domicile as stated in paragraph 2.
4. *Minors:* The domicile of a student who is a minor shall be considered the same as that of his parents or legal guardian, if any, regardless of emancipation. If an Ohio resident is appointed guardian of a nonresident minor, the latter shall be considered a nonresident until twelve months after the appointment.
5. *Wives:* A wife shall be classed as a resident student for registration purposes if her husband has had a bona fide residence in Ohio for a period of at least twelve months preceding her registration and is a resident of the state at the time of her registration.
6. *Losing Ohio Classification:* A student, who at time of entrance is classified as an Ohio resident, loses his Ohio classification if his legal residence is changed to another state, but not until one year has elapsed.

APPLICANTS FROM OHIO (High School Graduates). All residents of Ohio who are graduates of approved high schools and who have not attended another college are eligible for admission to the University.

Beginning with the admission of students for the fall semester of 1960-61, however, Ohio University will have new regulations for placing and enrolling students on *special warning*. Special warning status will be assigned to an entering student who graduates in the lowest third of his school class and who scores in the lowest fifth on the freshman psychological examination. A special program to meet the educational needs of such a student has been developed. Since capability for success in meeting the initial demands of university-level work is very low, a special warning student enrolls in Psychology 9, "Improvement of Reading and Study Methods," and in other courses, such as English 1. He also schedules Social Science 9, "Citizenship in the Modern World," and is required to complete vocational counseling during his first semester.

Because this program will not be available to him in the fall semester, a special warning student will be required to enter the University either at the beginning of a summer session or the spring semester. *No provision will be made for the enrollment of a beginning special warning student in September.*

Each student who applies for admission and who stands in the lowest third of his high school class will be evaluated for special warning status no later than September 1. Those who are to be admitted as regular students may enroll in September, but those classified as special warning students will enroll for the summer school terms or for the second semester of the academic year. The evaluation for a student standing in the lowest third of his high school class will be available for any prospective student who comes to the campus during his senior year in high school. Thus, if he stands in the upper four-fifths on his freshman test, he can be cleared for provisional admission as a regular student even before his final high school rank becomes available in June. *Any student who is in the upper two-thirds of his high school class or who scores in the upper four-fifths on the freshman examination is eligible, therefore, to enroll in a fall semester.*

For further statements relative to students on special warning, see the University College section of the catalog.

Ohio University recommends that all high school students looking toward college participate in the American College Testing Program.

In the case of a veteran of military service, Ohio University recognizes a diploma issued by an accredited Ohio high school on the basis of the General Educational Development Tests. The applicant, however, may be accepted only for a two-year terminal program if his test scores are low.

APPLICANTS FROM OHIO (Transfer Students). Any applicant, a resident of Ohio, who has attended another college and who desires to transfer to Ohio University is considered for admission if he has a point-hour ratio of 2.0 (C) on all hours *attempted*, and if he is eligible for good standing at Ohio University.

APPLICANTS FROM OUT OF THE STATE. Admission to Ohio University for out-of-state students will be based on superior academic promise. Only the student graduating in the *upper third* of his high school class will be considered. In addition, the student will be evaluated on the basis of the pattern of high school subjects, especially the subjects which prepare him for his college work. Test scores and interview information may be required. If an interview or test is required, it will be requested only after the application for admission and the high school transcript have been reviewed.

A veteran who ranks above the fiftieth centile on the General Educational Development Tests (High School Level) may be considered for admission.

A transfer student from out of the state who makes application for admission to any college of the University is considered for admission if he has a point-hour ratio of 2.0 (on the Ohio University grade-point system) on all hours *attempted* in all of his previous college work, and if he is eligible for good standing at Ohio University.

APPLICANTS FROM FOREIGN COUNTRIES. An applicant from a foreign country makes application for admission on a special foreign student application blank. This application form is obtained by writing to the Director of Admissions, Ohio University, Athens, Ohio.

No application will be considered until complete *official* credentials from all secondary schools, colleges, universities, normal schools, or technical schools attended have been received. These should indicate the degree or diploma received, if any, all subjects studied, and grades, marks, or standing achieved in examinations. If original documents are issued in native language, the original documents or certified copies thereof shall be accompanied by *official* translations in the English language. Three letters of recommendation should be submitted, including one from an administrative officer of the last educational institution attended and one from a teacher.

English Certification. The application should be accompanied by an English certification signed by a professor of English, cultural relations attache, a diplomatic or consular official of the United States, or a delegated representative of one of these persons, certifying that the applicant speaks English fluently and understands English sufficiently well to profit by study in a university in which English is used exclusively. It is essential that a foreign student be able to understand directions and lectures in English and express his thoughts clearly in spoken English immediately upon arrival at the University. Ohio University reserves the right to require the taking of an English language proficiency test under the auspices of such an agency as the English Language Institute of the University of Michigan, Ann Arbor, Michigan, or the American-Korean Foundation which has offices in New York City and Seoul.

Health Certification. A statement filed by a licensed physician certifying as to the state of the student's health and a smallpox vaccin-

ation and tetanus immunization certificate must be submitted in connection with the application for admission. (Students who return to the University after an absence of one year or more must present an interim health history prepared by a physician, or be cleared through the University Health Service.)

The medical forms are provided by Ohio University and must indicate that the applicant is:

1. Free from contagious or communicable disease.
2. Able physically and mentally to perform satisfactorily as a full-time student.
3. Sufficiently stable, emotionally, to make adjustment to an American university environment.
4. Vaccinated against smallpox.
5. Immunized against tetanus.

GRADUATE STUDENTS. Requirements for admission to the Graduate College are outlined in the Graduate College section of the catalog.

SPECIAL STUDENTS (Non-Degree). A mature person (whether or not a high school graduate, and ordinarily 21 years of age or over) not planning to work toward a degree or diploma, may be accepted as a *Special Non-Degree Student*. Such a person must file an application for admission to the University and clear through the Admissions Office. He is permitted to carry a full class load and may take any courses for which he is qualified.

SPECIAL PART-TIME STUDENTS:

1. A person may register as a *Special Part-Time Student* for a maximum of six semester hours of work a semester without clearing through the Admissions Office. Such a student, however, must be able to qualify for admission and is not permitted to retain this special status after he has accumulated 32 semester hours of credit at Ohio University or its Branches; or is within 32 semester hours of having sufficient credit for a degree or diploma. He must then make application for admission as a Regular Student and provide all of the information required as an accompaniment to such an application.

2. A student who has not yet graduated from high school may be accepted as a *Special Part-Time Student* for university-level work provided:

- a. He has made an outstanding high school record in general, and in some special area of study in particular.
- b. He has completed all work offered by the high school in the special area field.
- c. He has been recommended by his high school teacher in the special subject field and by the high school principal.
- d. His completion of requirements for the high school diploma is assured.

SPECIAL STUDENTS (Transient). A student who has attended another college or university and who wishes to acquire credit to be transferred to the former school may be accepted as a *Special Student* upon presenting evidence of good standing at the school formerly attended and a statement certifying that the credit will be accepted upon transfer.

ADVANCED PLACEMENT PROGRAM. Ohio University subscribes to the principle that every student of superior ability should have the opportunity to be placed in a secondary school program suited to his abilities and his preparation for college study. It therefore supports the Advanced Placement Program which has been developed by the College Entrance Examination Board. This program encourages secondary schools to establish college-level courses in the following fields: American History, Biology, Chemistry, European History, French, German, Latin, Literature and English Composition, Mathematics, Physics, Russian, and Spanish.

The student who enrolls for one or more of these courses is eligible to take an examination in each area completed. The examination is prepared by the College Board and the papers are graded by readers of the Educational Testing Service, Princeton, New Jersey. The examination paper, with the grade and an interpretation of the grade, a set of the examination questions, a description of the course as prepared by the school in which the work was done, and the school's recommendation, are forwarded to Ohio University. Advanced placement and credit will then be determined under policies adopted by the various departments of the University.

A small bulletin on "Advanced Placement and Credit" may be had upon request to the Director of Admissions and University Examiner, Ohio University.

CREDIT EARNED DURING MILITARY SERVICE. A student in military service may receive college credit for college courses completed through the United States Armed Forces Institute when end-of-the-course examinations are passed and officially reported, or when courses are taken in correspondence with accredited colleges.

For training completed by veterans in training units other than those offered in the colleges, the recommendations made for college credit by the American Council on Education are followed in most cases.

A student who has covered the subject matter in certain fields (for example: mathematics, physics, meteorology) during his training period may receive credit in the courses by presenting evidence of having had the courses and by passing satisfactory examinations in the subjects.

CREDIT FOR MILITARY SERVICE. A maximum of 8 semester hours of college credit for basic military training, or 16 semester hours for officer's training with commission will be awarded to a student who, after completing his military service, enrolls in the University. This credit is granted when the student presents a certified copy of his separation papers showing honorable discharge and a minimum of six months of service. A deduction in the amount of credit allowed is made for those students who received high school credit for military service or who have had R.O.T.C. credit in college.

ADVANCED STANDING EXAMINATIONS. Application for an advanced standing examination is made with the dean of the student's college for any course listed in the current catalog in which the student feels he has attained the necessary proficiency, and for which he desires credit without taking the course in class, provided the course lends itself to an examination. An advanced standing examination may not be taken to alter a grade at Ohio University. The application must be approved by the dean and the chairman of the department. Only a student who is enrolled for a minimum of six semester hours as a resident student of Ohio University is eligible to make application. A fee of \$5, payable in advance, is charged for each semester hour of credit involved.

Credit for the course is granted when a student receives at least a C grade and has completed at least 15 semester hours of credit at Ohio University with a point-hour ratio of 2.0. If a student who has not completed 15 semester hours is granted permission to take an examination for advanced standing, the credit is withheld until he has earned the required amount.

Any grade received on the examination for advanced standing becomes a part of the student's academic record and is used to compute the point-hour ratio.

FEES

Official enrollment is completed when fees due have been paid. Fees are payable at the Cashier's Office at registration time for those paying in full; and as scheduled for those students participating in the Fee Equalization Plan. The Fee Equalization Plan has been established for those students wishing to pay basic fees in equal payments over a period of months. It is designed primarily for those students who meet University expenses out of current family income. Full information on the plan is automatically sent to each student who applies for housing. Checks and money orders should be drawn in favor of Ohio University in the exact amount of the fees. If paid by mail, by the parents, they should be sent to the student in whose name the account is carried. It is important that the student retain receipts for they must be presented at various times.

Payment of fees owed is a prerequisite to official enrollment, and all students should have sufficient funds to cover these expenses. Post-dated checks will not be accepted. Checks issued to the University and not paid on presentation to the bank, will automatically cancel any receipts given and result in the assessment of penalties.

Ohio University reserves the right to make, without prior notice, any fee adjustments that may become necessary before the appearance of the next catalog.

REGISTRATION FEES	Resident of Ohio	Non- Resident
Matriculation fee (nonreturnable) -----	\$ 10.00	\$ 10.00
Required of every student on first enrollment in the University.		

The Semester:

Comprehensive fee for load of 12 to 18 hours, inclusive -----	150.00	300.00
Includes the general registration fee, the student activity fee, student service fees such as health, library, and testing, and course and laboratory fees. Excludes fees for private instruction as in music and bowling, which are listed in the course descriptions.		
Extra fee for each semester hour in excess of 18 hours -----	12.00	25.00
Fee for each hour for load of 7 to 11 hours, inclusive -----	12.00	25.00
Fee for each hour for load of 1 to 6 hours, inclusive -----	10.00	25.00
The fee for 1 to 6 hours does not carry with it the privilege of a student activity card or the use of the Health Service.		
Auditors pay fees in full as above.		

The Summer Session:

Fees for each term are proportionate amounts
of the semester fees. See Summer Session bul-
letin for details.

Correspondence Study:

Registration for each semester hour -----	10.00	11.00
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Extension and Evening School Class:

Course fee -----	2.00	2.00
Registration fee, each semester hour -----	10.00	22.00
Fee is increased if class is organized with an enrollment below the required quota.		

MISCELLANEOUS FEES

Certificate of completion -----	\$	2.50
Change of course or change of college -----		2.00
Entrance Tests, when not taken at the designated time -----		2.00
Duplicate official forms, fee receipts, grade report, etc. -----		1.00
Examination for advanced standing, each semester hour ----		5.00
Graduation—		
Application for degree -----		15.00
Application for Associate in Arts diploma -----		7.50
Re-application -----		5.00
Penalty for late application -----		5.00
Diploma mailing fee for those absent from commencement		2.00

Late registration or late payment of fees—\$3.00 Minimum, \$10.00 Maximum -----	3.00-10.00
R.O.T.C. Deposit Fee -----	20.00
Dissertation Microfilming -----	25.00
Thesis and Dissertation Editing and Abstract Printing ----	5.00
Dissertation or Thesis Binding, Each copy -----	3.50
Transcript of record, after first transcript request -----	1.00
Group requests of five to ten copies, \$5.00; up to twenty copies, \$10.00	
Vocational Counseling Fee for students and prospective students	5.00

REFUND OF FEES. Voluntary and official withdrawal from the University entitles the student to a refund of 80% of the comprehensive fee if he withdraws within the first and second weeks of a semester, and 50% if he withdraws within the third and fourth weeks. A week is interpreted to mean a calendar week and ends at noon on Saturday.

If a student withdraws from the University before he pays his registration fees or before he completes the payment for his registration fees, he is considered indebted to the University for the amount determined according to the refund regulations.

Refunds are issued thirty days after date of withdrawal.

EXPENSE ESTIMATE

The following is an estimate of expenses for a resident of Ohio for one eighteen-week semester at Ohio University:

Comprehensive registration fee -----	\$150.00
Rent of room in dormitory (average rental) --	117.00
Board in dormitory -----	234.00
 Total for semester -----	 \$501.00

The estimate does not include the cost of books, which amounts to approximately \$35 a semester for the average student.

The real differences in the costs of attending the University are to be found in such personal maintenance expenditures as those for laundry, clothes, recreation, and other incidentals. These may vary greatly and are determined by the individual's tastes and interests.

The University does not make provision for handling student accounts, this service being available through local banks.

REGISTRATION

Details concerning the registration procedure are given in the schedule of classes which is obtained at the office of the Registrar before each registration.

PERMITS TO REGISTER. A permit to register which shows the hour and place for advising and registration must be obtained for each registration. A student enrolled in the University obtains his permit in accordance with regulations announced by the Registrar.

A former student obtains a permit to register by calling at the office of the Registrar or by making his request by mail about a month before the opening of the session he wishes to attend.

A new student receives his permit to register by mail with other admission material.

STUDENT LOAD. A full-time student normally carries a minimum of 15 semester hours. A student on warning or probation carries a maximum of 14. A student must obtain approval from the dean of his college to carry less than the minimum prescribed by his college or more than 17 semester hours (19 if registered for an engineering degree), or more than 14 if on warning or probation. Specific regulations are given in the respective college sections of the catalog.

AUDITING PRIVILEGE. At the time he is advised a student may receive permission to audit courses as part of his load. The courses must be marked "Audit" on the schedule and registration cards. The fee for auditing is the same as for credit. Subsequent to registration, changes from audit to credit or from credit to audit are made by change order during the period when changes are permitted.

CLASSIFICATION OF STUDENTS. A student who has been regularly admitted to the University and who expects to pursue a degree or a diploma course is given rank according to the number of semester hours completed: Freshman, 0-24; Sophomore, 25-54; Junior, 55-86; and Senior, 87 and over.

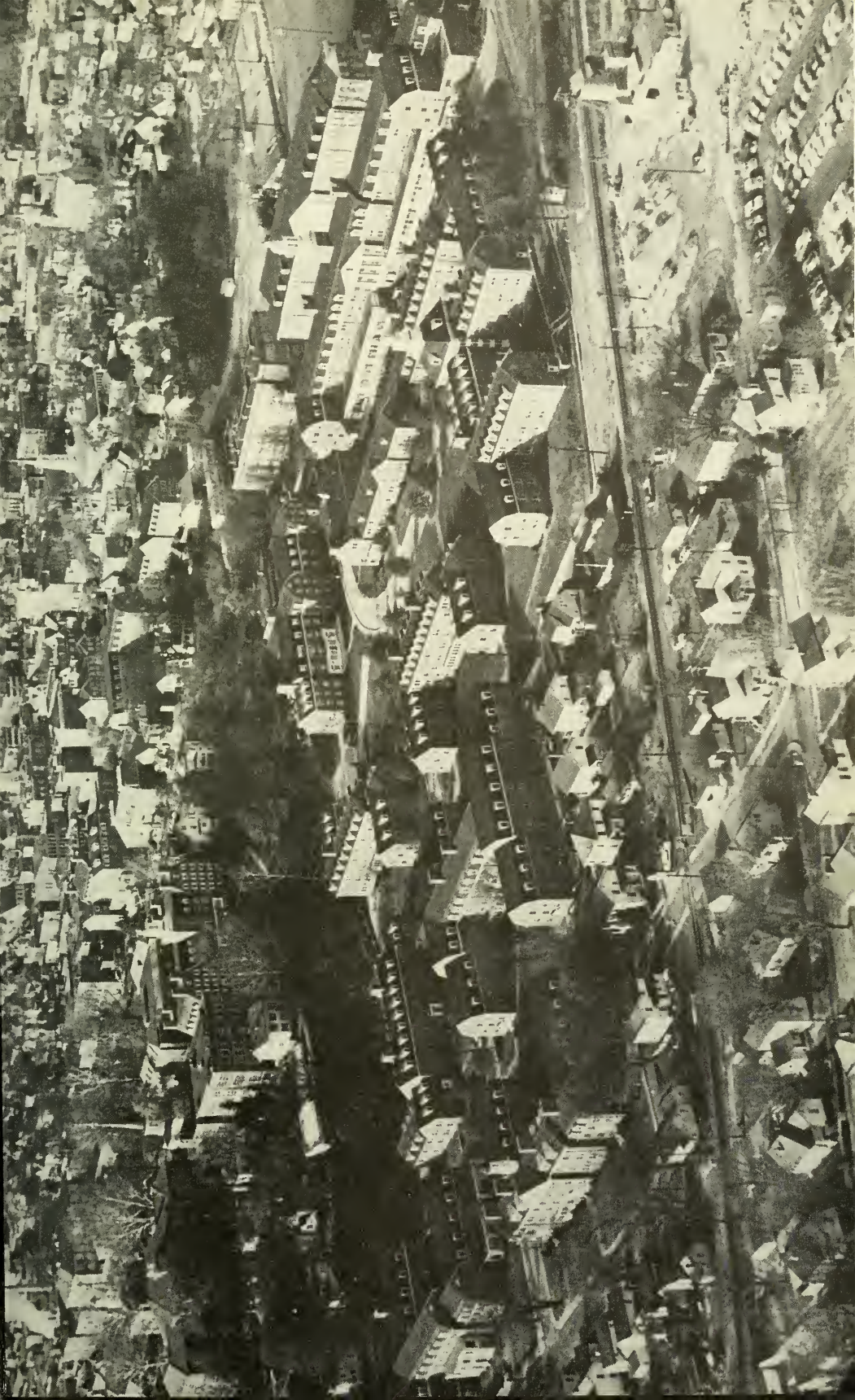
All other students are unclassified. If an unclassified student has completed 24 or fewer semester hours, he enrolls as a special student in the University College; if he has completed 25 or more semester hours, he registers in the degree college of his choice as a special student. An unclassified student continues to enroll as a special student until he has made up high school credit deficiencies or is regularly admitted to a degree or diploma course.

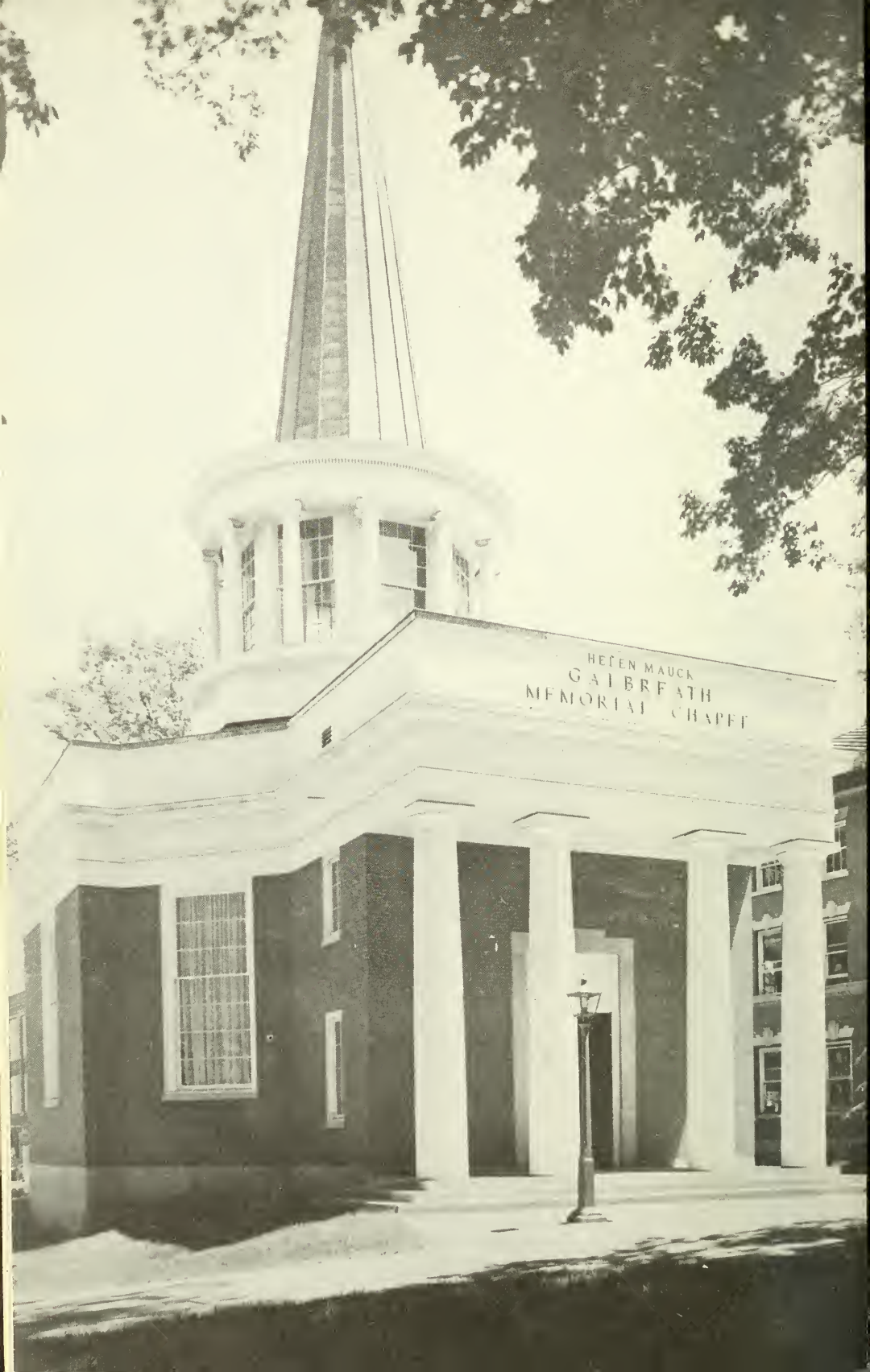
A student who has earned a degree and desires to register for undergraduate courses without pursuing another degree enrolls as a special student in the degree college from which he was graduated; however, a student who wishes to enroll for a special interest subject only may register in the college offering the course.

A student who has been admitted to the Graduate College enrolls as a special student when he does not wish to pursue a program leading to a degree.

CHANGE ORDERS. When a student finds it necessary to add a course, withdraw from a course, or correct his registration, he requests a change order in the office of the dean of the college in which he is enrolled. The order does not go into effect until it has been presented to and accepted by the office of the Registrar.

A course may not be added after the close of the third week of a semester.





HELEN MAUCK
GAIBREATH
MEMORIAL CHAPEL

When a student withdraws from a course by change order his grade is recorded W, and the instructor destroys the class card on receipt of a notice from the Registrar.

A course cannot be dropped by change order by a student in a degree college after the third week, and by a student in University College after the close of the eighth week of the semester; or in the case of a course that has a late starting date, one week after the starting date.

The following procedure is authorized for making a change order: The student secures a change order form in the dean's office, and then consults the designated departmental representative or the instructor of each course being dropped or added. If the departmental representative or the instructor approves the change, he signs the change order form. If the change is not approved, the reason may be indicated on the change order form or in a separate communication to the dean. The change order form is returned to the dean of the college in which the student is enrolled for approval. After securing the dean's approval, the student deposits the change order form in the office of the Registrar and pays the change order fee of \$2 if it was assessed by the dean.

Changes correcting mechanical errors in registration during the first week of classes may be approved by the dean of the college following approval of the departmental representative.

Exceptions to the above regulations are made only with the approval of the Executive Committee.

The dates marking the close of each period mentioned are shown in the calendar.

CHANGE OF ADDRESS. A student is responsible for any university office communication sent to him at the last address reported to the office of the Registrar. Forms for reporting a change of home or Athens address are available in the Registrar's office.

CHANGE OF COLLEGE. Application for transfer from one degree college to another is made in the office of the dean of the college in which the student is enrolled and should be made before registration. The change goes into effect when the application, signed by the two deans concerned, has been presented to the Registrar and the transfer fee of \$2 has been paid. A student is required to fulfill all the requirements of the degree and the college to which he transfers. The change must be completed within two weeks after the opening of a session or the student remains in the college in which he was registered until the next session.

WITHDRAWAL FROM THE UNIVERSITY. Application is made on a withdrawal form obtained in the office of the dean of the college in which the student is enrolled. When the request for the withdrawal has been approved by the dean of the college, the order is referred to the Registrar who grants an official withdrawal after it has been deter-

mined that all obligations to the University have been met. A refund of registration fees is made according to regulations under "Fees."

"W" is recorded for a University College student who is granted a withdrawal from the University during the first eight weeks of a semester, and for a degree college student during the first three weeks; and on receipt of notice from the Registrar, the instructor destroys the class card. The weeks are counted from the date marking the opening of the semester.

When a University College or degree college student is granted a withdrawal from the University following the close of the eighth or third week of a semester, respectively, his grade in each course is recorded "WP" if he is passing or "WF" if failing at the time of withdrawal. Hours of "WP" are not included in total hours attempted; hours of "WF" are. "WP" and "WF" appear on the transcript of record.

A student who leaves the University without obtaining an official withdrawal is not permitted a refund of fees and is given F in all courses. The University reserves the right to ask a student to withdraw at any time when it considers such action to be in its best interests.

CREDIT. All credit is designated in semester hours. A semester hour is the equivalent of one recitation or two or more laboratory periods a week throughout a semester. In order to receive credit, students are required to take final examinations. The final examinations are held during the last week of a session and all students are required to take the examinations according to the schedule issued by the Registrar.

The final examination for honors work must be taken before the opening of the regular examination period. For information concerning honors work, refer to "Honors Work Program."

REGISTRATION OF MOTOR VEHICLES

University policy and regulations require that all motor vehicles operated by students in Athens, including student-owned automobiles, automobiles belonging to parents or relatives, motorcycles, scooters, and other types of motor vehicles, must be registered with the University at a fee of \$2. This registration includes permanent town residents, married and graduate students, and commuters. The \$2 fee will be paid the first semester during registration week. This amount will register the vehicle for the entire academic year.

Upon registration and payment of the \$2 fee, each student will be given a windshield decal which must be attached to the lower right-hand corner of the windshield in accordance with state law.

If a car is brought to the campus after registration week, it must be registered within twenty-four hours at the office of the Dean of Men.

Failure to register a motor vehicle will result in a fine of \$10. In addition, the student will be required to pay a \$2 registration fee, and he may be denied his driving privileges by the Dean of Men.

SCHOLARSHIP REGULATIONS

THE GRADING SYSTEM. At the close of a session or upon the completion of a course an instructor reports a letter grade indicating the quality of a student's work in the course. Points are assigned for each semester hour of credit earned, according to the following grading system:

Letter Grade	Explanation	Points Per Semester Hour
A	Very high	4
B	High	3
C	Average	2
D	Passing but low	1
F	Failure	0*
I	Incomplete	0*
W	Withdrawn	—**
WP	Withdrawn Passing	—**
WF	Withdrawn Failing	0*
Cr. #	Credit without grade	—**

*Hours are included in total hours attempted.

**Hours are not included in total hours attempted.

Used at Ohio University for certain specified courses.

THE POINT-HOUR RATIO is the basis for determining scholastic standing. It is obtained by dividing the total number of points earned by the total number of semester hours undertaken, excluding courses in which the marks "W," "WP," or "Cr." are recorded (those with ** in the table).

"W" is recorded for a University College student who is granted a withdrawal from a course or from the University during the first eight weeks of a semester, and for a degree college student during the first three weeks. University College students may not withdraw from a course after the close of the eighth week, and degree college students after the third week. The weeks are counted from the date marking the opening of the semester.

When a University College or degree college student is granted a withdrawal from the University following the close of the eighth or third week of a semester, respectively, his grade in each course is recorded "WP" if he is passing or "WF" if failing at the time of withdrawal. Hours of "WP" are not included in total hours attempted; hours of "WF" are. "WP" and "WF" appear on the transcript of record.

Unofficial withdrawals result in "F" grades.

"I" is given to a student who, in a course in which he is doing passing work, has a relatively small part of the session's work not completed because of illness or other reason beyond his control as verified by the Dean of Men or the Dean of Women, or for some reason acceptable to the dean of the college in which he is enrolled. Two methods are available to the student for removing an "I" grade from his record: by arranging with the instructor to complete the work of the course within six weeks after the opening of the next semester he is

in residence, or by re-registering for the course and completing it with a passing grade. An extension of time for the removal of an "I" may be made by the dean of the college.

POINT-HOUR RATIO (SCHOLASTIC AVERAGE). Except for hours of "W," "WP," and "Cr.," the entire record including each grade in each course attempted, is used to determine probation status, eligibility for honors, and class ranking, and for all purposes where a cumulative point-hour ratio is requested.

MINIMUM STANDARD FOR GRADUATION. To meet the minimum standard for graduation from Ohio University, a student must have a point-hour ratio of 2.0 (C) on all hours attempted, but including only the final hours and points in repeated courses. This applies to his total record, and to his major or equivalent as determined by his college. For a student with transferred credit, this rule applies to both his cumulative record, which includes transferred credits, and to his Ohio University record exclusive of transferred credits.

REPEATING A COURSE. When a course is repeated, the last grade becomes the grade in that course for graduation purposes. Previous grades in repeated courses continue to be used to determine the cumulative point-hour ratio. A course may not be repeated after a more advanced course in the same field has been passed. A course passed may not be repeated in the semester in which the student is a candidate for graduation.

GRADE REPORTS

STUDENTS IN THE UNIVERSITY COLLEGE. At the end of the seventh and thirteenth weeks, grades for University College students are reported to the Registrar. The grades are available to the student through his counselor. The Dean of the University College sends a notice of warning at the close of the seventh week to the student who has a point-hour ratio below 1.6. At the close of the thirteenth week, a similar point-hour ratio results in a notice of warning being sent to the student and his parents.

A student who is on probation will have a notice of warning sent to his parents both at the seven and thirteen week grading periods if his point-hour ratio is below 2.0.

A final grade report is mailed to each student to his Athens address immediately after the close of the first semester, and to his home address after the close of other sessions.

STUDENTS IN DEGREE COLLEGES. At mid-semester instructors report to the student his standing in class. His dean receives a report if he has F or low D in a course. If at the end of a session a degree college student's cumulative point-hour ratio falls below 2.0 (C) but not low enough to place him on probation, a notice is sent to the student and to his parents by the dean of his college.

A final grade report is mailed to each student immediately after the close of a session.

HONORS

DEAN'S LIST. The Dean's List, compiled at the close of each session, includes the names of all freshmen who have a point-hour ratio of at least 3.0 (B) on a minimum load of 15 semester hours of credit; and the names of all upperclassmen who have a point-hour ratio of at least 3.3 on a minimum load of 15 semester hours of credit.

HONORS DAY. The Honors Day Convocation, held each spring, is for the purpose of honoring students who have attained high scholastic standing. The names of all undergraduate students who have attained a point-hour ratio of 3.0 (B) on a minimum total of 15 semester hours at Ohio University, and who in their last semester preceding Honors Day completed a minimum of 15 semester hours, are listed in the Honors Day Program. Students with transferred credits who have the necessary standing at Ohio University as well as on their cumulative record are also honored.

Graduate students are honored if they have attained a point-hour ratio of 3.5 (B+) on a minimum of 12 semester credit hours earned in residence, and if in their last semester preceding Honors Day they completed a minimum of 9 semester hours.

The student who attains these honors will have an indication of them on his record and on the transcript of his record.

GRADUATION. The name of the recipient of the bachelor's degree is distinguished in the commencement program by the notation "with honor" if his point-hour ratio on all hours attempted is 3.0 to 3.49, and with "high honor" if 3.5 or above. The name of one with transferred credits is similarly distinguished if both his Ohio University and total record meet the requirement.

PROBATION REGULATIONS

GRADE-POINT DEFICIENCY. A student whose total grade points is less than twice the number of hours attempted has a grade-point deficiency. A student's grade-point deficiency is found by taking two times the number of hours attempted minus total grade points accumulated. Thus, a student who has attempted a total of 31 semester hours and earned 48 grade points has a grade-point deficiency of 14 ($2 \times 31 - 48 = 14$).

At the close of each session the record of every student is reviewed. If a student's cumulative record shows a grade-point deficiency, he is subject to being placed on probation or dropped from the University. Action taken as the result of poor scholarship is indicated on the grade report which is mailed to the student. A notice is also sent by the Registrar to the student's parent or guardian. In general, action will be taken in accordance with the following regulations:

PROBATION. A student who has attempted fewer than 30 hours is placed on scholastic probation when his grade-point deficiency is

greater than 40 per cent of the number of hours attempted. A student who has attempted 30 hours or more is placed on scholastic probation when his grade-point deficiency is greater than 12 grade points.

PROBATION REMOVED. If a student on probation has attempted a total of fewer than 30 hours and his grade-point deficiency is not greater than 40 per cent of the total hours attempted, probation is removed. If a student on probation has attempted 30 hours or more and his grade-point deficiency is not greater than 12 grade points, probation is removed.

PROBATION CONTINUED. A student who has been on probation for one session may be continued on probation for one additional session if his grade-point deficiency has not increased and he is not eligible to be removed from probation. However, at the close of this additional session he must be eligible to be removed from probation or he will be dropped from the University.

DROPPED FROM THE UNIVERSITY. A student on probation is dropped from the University if his grade-point deficiency has increased and he is not eligible to be removed from probation.

Any student whose grade-point deficiency at the close of any session exceeds the number of hours attempted will be dropped from the University whether or not he has been on probation. A student may be dropped even though he has not previously been on probation. See **SPECIAL ACTION**.

Normally a petition for reinstatement will not be considered until a year after the student was dropped. He presents the petition to the dean of his college for consideration by the Executive Committee.

A student who is dropped may not enroll for courses on campus, in a Branch, or in correspondence or extension courses conducted by Ohio University until he is reinstated by the Executive Committee.

SPECIAL ACTION. In individual cases the Executive Committee may drop, impose or remove probation, or grant continuation or reinstatement if the circumstances appear to justify special action.

TRANSCRIPTS

A photograph of a student's record is issued by the office of the Registrar as an official transcript. Transcripts are made only upon request. Each student is entitled to one copy free of charge. A transcript requested after the free copy has been issued costs \$1. For a group request of from five to ten copies the fee is \$5; up to twenty copies, \$10. The transcript fee must accompany the transcript request.

A transcript carries a statement of good standing except when a student has been dropped from the University because of poor scholarship, nonpayment of fees, or unsatisfactory conduct. A student on scholastic probation has his status indicated on his transcript.

CLASS ATTENDANCE AND ABSENCES

A student is expected to attend all scheduled meetings of his classes and all examinations. The instructor will state, at the first class meeting, his policy regarding absences.

An official notification of absence stating the reason for absence will be issued to the student provided:

1. The student has been confined as a patient in the Health Center. (Issued by the Health Center.)
2. The student has participated in an authorized University activity such as: departmental field trip, musical activity, ROTC function, varsity athletic trip. (Issued by Office of Dean of Women or Dean of Men.)
3. The student has participated in some special event approved by the Administrative Committee. (Issued by the Office of the Dean of Women or Dean of Men.)

These are the only reasons for which an official University notification will be issued. Any other reasons for absence may be confirmed by written statements from other sources. All statements concerning reasons for absence must be presented to the instructor immediately upon the student's return to class.

The student is responsible for all class work and must make arrangements with the instructor to meet the requirements for making up work as prescribed by the instructor.

If a student feels that the instructor's decision regarding make-up or penalty for absence is unfair, he should first discuss the problem with his instructor. Only after discussion with the departmental chairman should he make an appeal to his academic dean.

ADDITIONAL REGULATIONS

Instructor's Attendance Reports:

Instructors will submit absence reports to the Dean of Men or the Dean of Women for students who are frequently tardy, frequently absent on any one day of the week, absent from so many meetings that academic work is affected, or absent from all meetings of a class for one week. This will enable the Deans of Men and Women to follow up irregular and excessive absences because it is often the first indication that a student is in trouble outside the classroom. A student may be dropped from the University because of excessive absences.

Class Probation and Penalties:

At the discretion of the instructor a student may be placed on class probation for excessive absences. The instructor notifies the student and the Dean of Men or Dean of Women who in turn notify the parents, the registrar, the dean of the student's college, the student, and the instructor who made the request. After being placed on probation an additional absence will result in the student receiving "F" in the course. This "F" is reported to the Registrar immediately with the reason indicated on the class card.

Absences Before and After Vacations:

Each instructor will report to the appropriate personnel dean all absences from class on the two days preceding and following official vacation periods for the assignment of penalty absences. A penalty of one semester hour is added to the requirements for graduation for an absence from the student's last scheduled class preceding a vacation and his first scheduled class period following a vacation. If a student is absent from all periods on the day immediately preceding a vacation and his last class period on the second day preceding a vacation, he is penalized two semester hours. The same penalty applies to the two days immediately following an official vacation. A total of four semester hours may, therefore, be added to an individual's graduation requirements for absences incurred at any one holiday period.

Special Requests:

If unusual circumstances not covered by these regulations make it necessary for a student to request absence he consults the dean of his college who will confer with the instructors concerned. Executive Committee action may be required at the discretion of the deans involved.

GRADUATION

APPLICATION. A candidate for graduation must make application in the office of the Registrar, and pay the application fee, not later than the date given in the university calendar for the session in which he plans to graduate. The application fee for a degree is \$15; for the Associate in Arts diploma, \$7.50. Application for graduation made after the time designated adds a penalty of \$5.

If an applicant fails to meet the requirements for graduation, he may reapply for the session in which he plans to complete the requirements. The reapplication fee is \$5. The penalty fee of \$5 is added for late reapplication.

SCHOLASTIC AVERAGE FOR GRADUATION. To meet the minimum standard for graduation from Ohio University, a student must have a point-hour ratio of 2.0 (C) on all hours attempted, but including only the final hours and points in repeated courses. This applies to his total record, and to his major or equivalent as determined by his college. For a student with transferred credit, this rule applies to both his cumulative record, which includes transferred credits, and to his Ohio University record exclusive of transferred credits.

The minimum number of semester hours required is increased by the number of hours received as a penalty for excess absences before or after a holiday or vacation, by the number of hours of repeated subjects, and by the number of hours in courses not allowed toward a degree by catalog designation or by the dean of the college, and may be increased by the number of semester hours earned in physical activity courses.

A student who fails to graduate because of a grade-point deficiency may take, with approval of his dean, up to a maximum of 6 semester hours of work in correspondence, extension, or Branches of Ohio University to make up his deficiency. Work may not be taken at another college to make up this deficiency.

MAJOR AREAS OF STUDY. Requirements for majors and fields of concentration are outlined by the individual colleges. A transfer student whose transcript shows the completion of most or of all the courses in a major area of study may be required by the dean of his college to satisfy the departments concerned that he has met Ohio University's standards in that area before it is recognized for purposes of graduation.

PROFICIENCY IN ENGLISH. A degree student who failed to make a grade of A or B in English 4 or in English 293 is required to take the English Proficiency Test the first time it is given after his record shows a total of 45 semester hours of credit toward graduation, provided he is not at that time enrolled in a composition course. A student who transfers to Ohio University in his junior or senior year takes the Proficiency Test during his first semester in residence, and one who transfers in his sophomore year takes the Test after his record shows a total of 45 semester hours of credit toward graduation, regardless of the grade he received in freshman English in another school. Any transfer student who must take English 3 at Ohio University to complete his freshman composition requirements may be excused from the Proficiency Test if his grade is A or B. Students exempted from, and given credit for, English 3 and 4 through the advanced placement program are exempt from the test.

The Proficiency Test is offered three times each semester and once each summer term. Dates are shown in the calendar. The student must assume the responsibility of registering for the Test when he becomes eligible. The Test consists of a few paragraphs of prose, written on a subject chosen by the student from a list of subjects given to him at the Test. The papers are later marked Passed or Failed on the basis of the general adequacy and acceptability of the English they exhibit.

THE WRITING CLINIC. The student who fails the English Proficiency Test will be required to enroll in the Writing Clinic in order to re-establish his eligibility to retake the Proficiency Test. The Writing Clinic is a four-week course designed to provide practice and constructive criticism for the student on those aspects of writing in which he has demonstrated weaknesses. No credit toward graduation is given and no fee is charged for this course. Satisfactory completion of the Writing Clinic permits the student to retake the Test. The student must assume the initiative in registering for the Writing Clinic after he has failed the Proficiency Test.

CONDITION IN COMPOSITION. Any member of the faculty may recommend to the Committee on Proficiency in English that a *Condition in Composition* be given to a student who demonstrates a deficiency in English composition. This provision applies to students who have previously satisfied the English Proficiency Test requirement. A student who receives a *Condition in Composition* is required to enroll in the Writing Clinic and, after successful completion of the Writing Clinic, to retake and pass the English Proficiency Test.

PHYSICAL EDUCATION. *Men students* have a flexible physical education requirement. The normal minimum requirement of two semester hours credit in service courses may be reduced by passing physical proficiency and sports tests which are offered near the close of each semester and summer session. After completing one semester with credit, the student may elect to try physical proficiency tests or to continue to register for additional credit. Having passed testing standards prescribed by the Division of Physical Education and Athletics, the student is excused from further requirements.

Men classified as *veterans* of the armed forces are not held to the one-semester rule and, therefore, may take proficiency tests on entrance to the University.

Women students are required to complete two semester hours credit in service courses.

Men and women may elect additional semesters in physical education service courses and, subject to exceptions listed by the colleges, apply four hours of this credit toward degree requirements. Students who elect beyond four hours must register as auditors.

See "Service Courses" in "Courses of Instruction" for additional regulations governing service course credit toward the degree requirement.

EXCEPTIONS, EXCUSES, AND DEFERMENTS are allowed for both men and women as follows:

Exemption from the physical education requirement is made automatically for a graduate student, for a student who is 30 years of age or over, or for a veteran who is 25 years of age or over, provided he has completed the requirement up to and including the semester in which he attained the required age.

An excuse from the physical education requirement is granted to a permanently disabled student by the Director of Physical Education upon the recommendation of the Director of the Health Center.

Deferment—postponement for one semester—is authorized by the Director of Physical Education upon the recommendation of the Dean of Men or the Dean of Women for a student who has an excessive load in connection with part-time work or by the student's academic dean in cases of serious scheduling conflicts. Any student who is granted a deferment in physical education courses must complete before graduation the requirement he otherwise would have had to meet without deferment.

RESERVE OFFICERS' TRAINING CORPS. The Army and Air Force R.O.T.C. offers a two-year basic course and a two-year advanced course. Once either course is elected, completion of that course becomes a prerequisite for graduation, unless the student is relieved of this obligation by proper authority. R.O.T.C. credit does not increase the total semester hours required for most degrees, provided the student utilizes his curricular elective hours for this credit. See college sections, and "R.O.T.C. Division."

RESIDENCE. The minimum requirement for students who complete fewer than 45 semester hours at Ohio University is the final year (two semesters) or sessions that total 25 weeks, with 30 hours of credit. The requirement for those who complete 45 or more semester hours is the final semester (15 weeks) or equivalent in sessions with 15 hours of credit.

The requirement for Branch students includes a minimum campus residence of 15 weeks with 15 hours of credit. This may be completed at any time, and need not be the final weeks prior to receiving the degree.

The residence requirements apply to the Associate in Arts diploma, except that Branch students may complete all requirements for the diploma in the Branch.

Part-time students earn residence equivalent to the number of hours they complete

Credit earned in off-campus extension classes and correspondence study does not count toward fulfillment of the residence requirement.

An exception to the final semester or final year of residence may be made in the case of a student who has otherwise met the minimum residence and scholastic requirements and who has completed all but six semester hours, or fewer, required for a degree. When this occurs a student may complete the final semester hours, six or fewer, at another institution, or by extension, correspondence, or Branch study at Ohio University.

If a student begins graduate study before he completes all requirements for a bachelor's degree, residence for the bachelor's degree will be reduced by as many weeks as credit hours of graduate work completed. The number of weeks subtracted will be credited toward the residence requirement for a master's degree if the credit is acceptable in the program approved for graduate work toward a degree. Residence used for meeting requirements for one or more bachelor's degrees may not be used for meeting the residence requirements for a master's degree.

The residence regulations apply to a student who has been approved for graduation in absentia and is completing his last year in an accredited professional school, except that the regulations apply to his residence before he leaves the University to attend the professional school.

IN ABSENTIA. In absentia permission is obtained in writing from the dean of the college in which the student is enrolled. Application for graduation in absentia is made by a student in the office of the Registrar before he leaves the campus. To obtain his bachelor's degree a student who has been approved for the senior-in-absentia privilege in an approved professional school must have completed a full year's work of the quality prescribed for the bachelor's degree at Ohio University, and be eligible for advancement without condition to the second year. The official transcript from the school, and the statement from the dean of the school certifying that he has satisfactorily completed the full year's work and is eligible for advancement without condition to the second

year, must be in the office of the University Examiner, Ohio University, two weeks before the commencement date, or a notice of the last date it will be received prior to commencement must be sent.

A student graduating in absentia is excused from attending commencement exercises.

TIME LIMIT. The time limit for fulfilling the published requirements for a degree is five years from the date of first registration in the University. Requirements instituted subsequent to the student's initial registration are applicable at the discretion of the University. The following additional regulations apply.

1. A student who is advanced to a degree college at the end of his first year, and who does not change his major or equivalent, fulfills the requirements in effect at the time he first registered in the University.
2. A student who is retained in the University College for more than one year fulfills the requirements in effect at the time he enters the degree college. If he changes his major or equivalent he fulfills the requirements in effect at the time he makes the change.

A transfer student is governed by the same regulations, except that the number of years in which to complete the degree requirements is reduced by the number of years of transferred work.

GRADUATION WITH HONOR. A candidate for the bachelor's degree who is graduated with a point-hour ratio of 3.0 to 3.49 on all hours attempted is distinguished on the commencement program by the notation "with honor"; with 3.5 or above, by the notation "with high honor." A student with transferred credit is similarly distinguished if both his Ohio University record and his cumulative record meet the requirement.

A candidate who has successfully completed a program of study in honors work is, in addition, distinguished on the commencement program by the notation "with honors in -----," with the indication of the field in which he has achieved distinction.

HONORS WORK PROGRAM. Honors work is offered to give the superior student freedom to pursue intensive study of his chosen field. The aims of the program include acquisition of knowledge in a chosen field, integration of knowledge of one field with that of related fields, development of the ability to carry on independent investigation and research, enhancement of skill in the written expression of the results of reading or investigation, and development of creative talents.

Students who have attained a point-hour ratio of 3.0 or better on all work attempted and possess a talent to work independently may become candidates for a degree with honors in their chosen field of study. Application is made to the Honors Work Committee during the junior year or at the beginning of the senior year. The committee, with the approval of the student's dean, assigns the student to an instructor who will serve as the student's adviser in honors work.

At the beginning of the first semester of honors work, the student files with the committee a brief plan of his program of honors work. Near the close of that semester, he files with the committee a statement of work accomplished and future plans. Before the close of the senior year, a final essay, research paper, or completed creative project is submitted to the committee. At the end of each semester a grade for honors work is sent to the Registrar by the student's honors adviser. A student registered for honors work who at the end of any semester has not maintained a point-hour ratio of 3.0, or who has received a grade below B in each semester of his honors work, is dropped as a candidate for honors but receives course credit.

All general requirements for the degree sought by the student must be met either before or while the student is registered in honors work. The student may register for from three to eight semester hours of honors work each semester as a part of his student load. A student may enroll in honors work in the second semester of his junior year if the demands of his project make necessary the additional time. Normally, the student will be permitted to carry only one honors work project. In exceptional cases permission to enroll for more than one program may be obtained from the Executive Committee of the University.

Upon completion of the project a student whose adviser does not grant a grade of B or better is disqualified for honors in his field but retains course credit earned by his honors work. Final judgment on the projects of otherwise qualified candidates is made by the Honors Work Committee. A student who completes an acceptable project is graduated with honors in his special field. Suitable notation is made on the student's transcript and on the commencement program.

COMMENCEMENT. Degrees and diplomas are granted at commencement exercises held at the close of each semester and the second summer term. Attendance at graduation exercises is required in academic costume. Students who have been granted permission to graduate in absentia are excused from attendance. Other candidates, due to unusual circumstances, may need to request absence. Application for excuse is made with the dean of the college. The application form which is filed with the Registrar includes instructions for the mailing of the diploma and carries a diploma handling charge of \$2.

A SECOND BACHELOR'S DEGREE. A student who desires two bachelor's degrees may meet the requirements for them either simultaneously or successively:

(a) If a student desires to complete the requirements for the two degrees simultaneously and have the degrees conferred on the same date, he must meet the particular subject requirements for both degrees; earn a minimum of 154 semester hours approved for the degrees (170 for two engineering degrees) with the requisite scholastic average, both on Ohio University work and on the total record when credit has been transferred from another school; and must have completed a total of nine semesters of college work or its equivalent, with a minimum of

three semesters of residence, or the equivalent, at Ohio University. When the two degrees are offered by different colleges, the student must register in both colleges the session in which the degrees are to be conferred.

(b) If a student has met the requirements for two degrees as indicated above and desires to have the degrees conferred in successive semesters, he may do so without further credit or residence. He may, for example, have one degree conferred at the end of one semester or summer session and may make application for the second degree at a subsequent session. If the session closes with commencement exercises, he will be required to attend in academic costume unless his application for excuse from commencement is approved.

(c) If a student desires to take a second bachelor's degree after he has received his first, he must complete the subject requirements for the second bachelor's degree, earn a minimum of 30 acceptable semester hours beyond the requirements for the first degree with the requisite scholastic average and have at least an additional semester of residence, or equivalent, in the college offering the second degree with the completion of at least 15 acceptable semester hours.

THE UNIVERSITY COLLEGE

GAIGE B. PAULSEN

DEAN

BERNARD R. BLACK

ASSISTANT DEAN

Basic Preparation

for admission

to each of the

degree-granting

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Two-Year Terminal

programs leading

to Associate in

Arts diploma

THE UNIVERSITY COLLEGE

All freshmen enroll in the University College which concerns itself primarily with the problems of first-year students—their courses of study, and their guidance during the period of transition from high school to college. The freshman year in the University College and the following three years in one of the degree colleges represent the normal time required for completion of any of the baccalaureate degree programs.

During the first week of the semester in which a student is first enrolled, designated as "Freshman Week," the University College conducts a program of orientation for freshmen. All new students are required to attend Freshman Week activities. Various tests are given to assist students and their counselors in the selection of courses and educational objectives. Meetings are held during the week to help students become acquainted with the University—its history and traditions, regulations, opportunities for development, and student activities and organizations. A copy of the "Orientation and Studies in the Freshman Year" bulletin is sent to each new student prior to his enrollment in the University. It includes the program for the week, giving the exact time and place of all events.

A Pre-College Conference in the summer provides an opportunity to come to the campus for one day to complete the freshman tests, to learn the significance of the scores, and to confer with a faculty counselor and prepare a schedule of classes.

It is recommended that the prospective student complete the American College Testing Program. All students living in Ohio will be notified through their high schools about the program and the tests will be administered at special testing centers. These tests will develop information for the individual student, and Ohio University will also use the test results for purposes of classification and placement. Any student who will graduate in the lower third of his high school class will be required to take this or a similar test to determine his admission status.

The University College aims to provide an educational program that will best meet the individual needs of the student. No prescribed course of study is required of all. The courses in the freshman year are planned so as to provide studies that are generally recognized as most essential to the educated person. Students are advised to consider it a year of broad preparation for later specialization. General course requirements are determined so as to complement the work done in high school and to take into account the educational objective of the student.

General requirements of the University College are determined as follows:

1. English Composition—Eng. 3-4.

Students who place low on the English Placement Test given all entering freshmen take Eng. 1, then complete Eng. 3-4 in their second and third semesters in the University. Hours and points earned in Eng. 1 are added to the requirements for graduation.

Students who demonstrate superior ability on the Placement Test will be registered in an Honor Section of Eng. 3.

2. Fundamentals of Speech—Speech 1.
3. Physical Education—as required for the degree.
4. One year in each of two of the following groups:

In case a student has a specific requirement due to a high school deficiency, as in Humanities and Mathematics, the courses taken to meet these two requirements also meet the *two group requirement*, or a course taken to meet one specific requirement also is counted as meeting one of the *two-group requirement*. In other words, a course or courses taken to meet specific requirements also apply toward the *two-group requirement*.

- A. *Humanities*: (a) Foreign language; (b) Humanities 7, 8—The Great Books (see “General Studies”); (c) Fine Arts 17-18—Introduction to the Fine Arts; (d) Phil. 1—Principles of Reasoning, and Phil. 2—Moral Philosophies.

Students with less than two years of foreign language in high school are required to take a year in one subject in the Humanities group.

- B. *Mathematics*: Math. 1—Elementary Algebra; Math. 2—Euclidean Geometry; Math. 3—Intermediate Algebra; Math. 9-10—Fundamentals of Mathematics; Math. 14—Trigonometry; Math. 15—Freshman Mathematics; Math. 16—Analytic Geometry and Calculus; Math. 34—Mathematics of Finance.

Students who have had no algebra or plane geometry in high school take Math. 1—Elementary Algebra and Math. 2—Euclidean Geometry. Students who have had one year of algebra and no plane geometry take Math. 2. Math. 1 and Math. 2 are offered only in the Summer Session. Students are strongly urged to complete algebra and plane geometry in high school since completion of Math. 1 and Math. 2 contribute no credit or points toward the degree.

- C. *Natural Sciences*:

BIOLOGICAL—Biol. 1-2—The Living World (see “General Studies”); Bot. 3-4—General Botany; Zool. 3-4—Principles of Zoology.

PHYSICAL—Astron. 11-12—Elementary Astronomy; Chem. 3-4 and 99—General Chemistry and Qualitative Analysis; Geol. 1-2—Elements of Geology; and Phys. Sc. 3, 4—The Physical World or Phys. 5, 6—Introduction to Physics.

Students with less than two full years of laboratory science in high school take a year in one science in the area in which no science was taken in high school; i.e., if Biological Science was taken in high school the requirement is in Physical Science. (High school courses such as general science and senior science are excluded.) Exceptions to this requirement must be approved by the Dean of the University College.

- D. *Social Science*: Ec. 11-12—Principles of Economics; Geog. 3—Elements of Physical Geography; Geog. 4—World Regional Geography; Govt. 1, 2—American Government; Hist. 1, 2—Western Civilization in Modern Times; Psych. 1—General Psychology, Psych. 2—Principles of Psychology; Soc. Sc. 9, 10—Citizenship in the Modern World (see “General Studies”); Soc. 1—General Sociology, and Soc. 2—Modern American Communities.

Students with less than two years in any combination of courses in social science taken in high school are required to take one year of social science.

In addition to the above listed courses, many courses have been selected which a freshman student may carry on an elective basis, but which do not meet the specific requirements outlined above.

The student normally plans his schedule so as to complete the University College requirements in the freshman year. A student who has chosen the degree he wishes ultimately to receive is advised to select courses from among those offered in the four groups above that are especially recommended for the particular curriculum he expects to follow. For example, it is suggested that a student who expects to pursue a program in the Arts and Sciences and who will have a requirement in language carry a language course to meet the humanities requirement, while a student who plans to major in the Fine Arts should select F.A. 17-18—Introduction to the Fine Arts, to meet the humanities requirement. The student who has not decided upon any definite course will find that the University College program affords him an opportunity to explore various fields of knowledge so that a wiser final choice may be made. No student's schedule may include more than five semester hours in courses not included in the general requirements or in any one of the four groups.

COUNSELING PROGRAM. This program is designed to help the student make wise decisions regarding his academic plans. In addition, it encourages him to develop initiative and increasing responsibility for his personal development. Each student is assigned to a faculty counselor selected on the basis of having professional interests similar to those of the student. Throughout the year the student confers with his counselor: at the beginning of each semester for schedule preparation, at the time of the two grade periods each semester (end of seventh and thirteenth weeks), and at other times as he may need advice or assistance.

ADVANCEMENT TO DEGREE COLLEGE. At the end of two semesters, the student is advanced to the degree college of his choice. Graduation from the University requires the completion of all University College requirements. The student is advised to include courses for completing any unfulfilled University College requirements in his sophomore schedule of classes.

REGISTRATION. All entering freshmen must register and participate in the orientation program. A copy of the complete schedule of events is mailed to each new student before registration. Announcements for registration in the second semester and the summer session are made to students registered in the University through regular campus news channels.

TERMINAL PROGRAM LEADING TO ASSOCIATE IN ARTS DIPLOMA. The University College offers a program of study for the student who does not intend to complete a four-year degree program and who plans to spend only two years in the University. Its completion leads to the Associate in Arts diploma.

The Associate in Arts program includes English composition, physical education, speech, Social Science 9 and 10, and other general education and career courses. The same standards of academic achievement as for the degree are required during the progress of the program. The student must complete 62 hours with a minimum of 124 grade points. Application for the diploma is made at the office of the Registrar at the time announced for all degree and diploma candidates and must be accompanied by a fee of \$7.50.

A number of curricula for terminal programs have been outlined. They furnish the student with a background for admission to certain professional schools or for employment in a special position. The outlined curricula include: Agriculture; Commerce, including General Business or Secretarial Studies; Home Economics; Journalism, with work in either Advertising or Radio Speech; Medical Technology; Metalworking; Premortuary Science; Prepharmacy; Preveterinary Medicine; and Recreation Leadership. There are additional curricula, and other special programs may be planned to meet the needs of the student.

When the student decides to pursue one of these programs, he confers with his counselor and prepares an outline of courses which he will carry to complete the program. This is filed with the University College office. Credit earned while enrolled in a terminal program may be counted on a four-year degree course, subject to the approval of the dean of the degree college in which he later enrolls. A student who shifts to a degree program is required to complete all University College requirements. This shift from a terminal program to a degree program may involve spending additional time in completing the degree requirements, since some of these requirements are normally completed in the first two years and may not have been a part of the Associate in Arts program.

STUDENT HOUR LOAD FOR FRESHMEN IN THE UNIVERSITY COLLEGE. It is important that a student should establish good study habits and that he should normally complete one fourth of the work required for a degree (from 31 to 36 semester hours credit) during his freshman year.

So that a student may accomplish these things and carry a load adjusted to his demonstrated ability in high school, a full-time student not placed on special warning and not on probation is required to carry a minimum load of 15 semester hours credit. The maximum load will usually not exceed 17 semester hours (18 or 19 semester hours for an engineering student).

A full-time student placed on "special warning" (see Admissions), or who is on probation, is required to carry a minimum load of 12 semester hours credit. The maximum load for such students is 14 semester hours credit.

Any exceptions to the above regulations—either to carry a load in excess of the maximum or less than the minimum—must be approved by the dean of the University College.

THE COLLEGE OF APPLIED SCIENCE

E. J. TAYLOR, JR.,

DEAN

ENGINEERING

Chemical

Civil

Electrical

Engineering Graphics

Mechanical

(Industrial and Technical Options)

THE SCHOOL OF HOME ECONOMICS

VIVIAN M. ROBERTS, DIRECTOR

Child Development and Family Life

Foods and Nutrition

Home Economics Education

Housing and Home Management

Food Service Management

Textiles and Clothing

THE DEPARTMENT OF INDUSTRIAL ARTS

Industrial Arts

Industrial Technology

THE COLLEGE OF APPLIED SCIENCE

The College of Applied Science offers curricula leading to the Bachelor of Science degree in the fields of engineering, industrial technology, and home economics.

Candidates for degrees must fulfill the general graduation requirements of the University. Candidates for the degree in industrial technology must complete a minimum of 130 hours and for the degree in home economics a minimum of 124 hours, plus any physical education in excess of 2 hours with a point-hour ratio of 2.0 (C) on all hours attempted, but including only the final hours and points in repeated courses. This applies to his total record and to his major or equivalent. Candidates for degrees in engineering must complete a minimum of 140 semester hours plus satisfaction of physical education requirements with a point-hour ratio of 2.0 (C) on all hours attempted, but including only the final hours and points in repeated courses. Not more than 8 semester hours credit in ROTC may be included in the 140 semester hours required for graduation. At least 18 semester hours of credit in humanities and social sciences is required for a degree in engineering, with at least 6 hours credit in each field.

For a student with transferred credits, these rules apply to both his cumulative record, which includes transferred credits, and to his Ohio University record exclusive of transferred credits.

STUDENTS WHO DESIRE TO TEACH. Students who desire to teach industrial arts or home economics may enroll for the degree Bachelor of Science in Education offered by the College of Education. Students who enroll in the College of Applied Science may complete the requirements for the degree Bachelor of Science in Home Economics and secure a teaching certificate by satisfying the requirements in education specified by the State Department of Education for the field in which the student desires to teach. Requirements of the State Department of Education are listed under "Teaching Certificates" in the College of Education section of the catalog.

ENGINEERING

Engineering curricula accredited by the Engineers' Council for Professional Development are offered in Civil Engineering, Electrical Engineering, and Mechanical Engineering (Industrial and Technical Options). A curriculum in Chemical Engineering has recently been organized.

All engineering faculty members are registered professional engineers in the State of Ohio. New faculty members are expected to register in Ohio within a year after they have been appointed to the faculty.

A four-year engineering program necessarily limits the time which may be devoted to study in other colleges of the University. Since a background in English, the humanities, and the social sciences is essential for an engineer who hopes to advance in his profession, the

faculty requires that all candidates for an engineering degree must have completed at least 18 semester hours of credit in the humanities-social sciences (including English courses numbered above 100). At least 6 hours credit in each field is required. The student is urged to plan in consultation with his adviser a program in these fields which will be most helpful to him. Engineers are frequently chosen for management; hence it is to the student's advantage to secure the broadest possible education.

ADMISSION TO AN ENGINEERING PROGRAM

High school students who wish to follow an engineering curriculum should plan to present for admission to the University those subjects which meet the area requirements of the University College, including the additional mathematics listed under "Subjects in High School" in the Admissions section of the catalog. *High School students are warned that if they have not completed mathematics and other minimum entrance requirements, they should enter the University in June and take preparatory work during the summer session.* This will prevent scheduling difficulties, and enable them to complete the program in the normal period of four years. A student should indicate his choice of an engineering curriculum on his official application for admission to the University. This precaution will assure proper guidance in the University College program of study.

To be admitted to an engineering program from the University College, a student must at the time of admission to the engineering program have (1) satisfactorily completed Math. 16—Analytic Geometry and Calculus, (2) satisfied all University College requirements, and (3) have a cumulative point-hour ratio of at least 1.8.

Students who are not properly prepared in high school mathematics must enroll in preparatory mathematics courses. After September 1, 1961, no mathematics course below Math. 16—Analytic Geometry and Calculus, or its equivalent, will be counted toward satisfying the requirements for a degree in engineering.

A student whose point-hour ratio is less than 2.0 for the second semester of the freshman year, or who receives a grade lower than "C" in the mathematics course taken during the second semester of the freshman year, is admitted to an engineering program *on warning*. Such a student remains on warning until the end of the first semester in which he achieves a cumulative point-hour ratio of 2.0

Students who wish to lighten the strenuous load of a four-year program may plan their program to take nine semesters or to attend a summer session. Students who have high school deficiencies to make up are urged to consider this alternative. With proper planning a student may obtain a degree from the College of Arts and Sciences, the College of Commerce, or the College of Fine Arts as well as a Bachelor of Science degree in an engineering field upon the completion of ten semesters in the University. (See "Degree," Second Bachelor's.)

University College students who intend to study engineering are urged to consider a foreign language for the humanities requirement. Those intending to enroll in Chemical Engineering should choose German or Russian. Opportunities for engineers who are acquainted with a foreign language are increasing.

Every engineering student should be prepared after completion of his four-year program to pass the examination given by the Board of Registration for Professional Engineers of the state in which he intends to practice. The Ohio Board allows those who have completed the standard four-year curriculum to appear for examination. It is to the student's advantage to take the examination as soon as possible after graduation.

REQUIREMENTS FOR CONTINUING IN AN ENGINEERING PROGRAM

A student who has been admitted to an engineering program with a point-hour ratio of less than a 2.0 must remove the grade-point deficiency by the end of the second semester in the engineering program. A grade-point deficiency in engineering subjects will not be permitted after two semesters in an engineering program. Failure to meet these requirements may result in a student being dropped from the engineering program by special action.

CURRICULA IN ENGINEERING

The faculty has established basic curricula in Civil Engineering, Chemical Engineering, Electrical Engineering, and Mechanical Engineering (Industrial and Technical Options).

University requirements pertaining to English Composition, physical education, the humanities, social sciences, and speech, which are outlined in the University College section of the catalog, are not indicated in the engineering curricula which follow.

HUMANITIES-SOCIAL SCIENCE ELECTIVES. The following subjects will meet the humanities and social science requirements.

Humanities Elective Group

English courses numbered over 100

Courses in Fine Arts

Humanities 7, 8 or 107, 108—Great Books

A foreign language

Courses in Philosophy

Social Science Elective Group

Courses in Economics

Courses in Geography

Courses in Government

Courses in History

Social Science 9, 10 or 209, 210—

Citizenship in the Modern World

Courses in Psychology

Courses in Sociology

Human Relations 303, 304—

Human Relations

If a student desires to take other courses to satisfy the restricted elective requirement, he must receive prior approval of his department chairman and the dean.

ELECTIVES. Any courses listed other than those used to remove high school deficiencies may be selected as free electives. ROTC courses not to exceed eight hours credit may be used for free electives. The following are recommended.

Accounting 75-76—Elementary Accounting
Accounting 175—Cost Accounting
Business Law 255-256—Business Law
C. E. 270—Engineering Economy
Math. 207—Mathematical Statistics
Math. 316—Advanced Applied Math.
Math. 341—Advanced Calculus
Management 302—Production Management

Management 312—Administration
of Personnel
Physics 349-350—Atomic and Nuclear
Physics
Physics 365—Nuclear Reactor Theory
Statistics 155—Business Statistics
Speech 3—Public Speaking

Freshman Program
(for all engineers)

The University College Program should include:

1960-61

First Semester	Hours	Second Semester	Hours
Chem. 3—General Chemistry	4	Chem. 4 & 99—General Chemistry and Qualitative Analysis	4
E.G. 1—Engineering Drawing	2	E.G. 2—Engineering Drawing	2
Math. 15—Freshman Mathematics	5	E.G. 21—Descriptive Geometry	2
Ind. Arts 12—Shop Orientation*	1	Math. 16—Analytic Geometry and Calculus	5

*Electrical Engineers only

1961-62

Chem. 3—General Chemistry	4	Chem. 4 & 99—General Chemistry and Qualitative Analysis	4
E.G. 1—Engineering Drawing	2	E.G. 2—Engineering Drawing	2
Math. 16—Analytic Geometry and Calculus	5	E.G. 21—Descriptive Geometry	2
Ind. Arts 12—Shop Orientation*	1	Math. 101—Analytic Geometry and Calculus	4

*Electrical Engineers only

BACHELOR OF SCIENCE IN CHEMICAL ENGINEERING

In its constitution, the American Institute of Chemical Engineers defines chemical engineering as "the application of the principles of the physical sciences, together with the principles of economics and human relations, to fields that pertain directly to processes and process equipment in which matter is treated to effect a change in state, energy content, or composition."

This curriculum provides a broad but thorough training. Initially, study in chemistry, mathematics, physics, and communication skills is emphasized. Simultaneous course work in engineering science and analysis leads to an intensive program in chemical engineering fundamentals. Approximately a fifth of the curriculum is elective which permits the student to pursue his interests, under guidance, in the humanities and social sciences.

The program provides an adequate background for graduate study in engineering or the sciences, or for further training in the areas of research, development, design, management, or technical sales in the chemical or related industries.

Sophomore Program

First Semester	Hours	Second Semester	Hours
C.E. 120—Applied Mechanics	3	C.E. 121—Applied Mechanics	3
Chem. 109—Quantitative Analysis	4	Ch.E. 101—Intro. to Chemical Process	3
Math. 101—Anal. Geom. & Calc.	4	Math. 102—Anal. Geom. & Calc.	4
Phys. 113—General Physics	4	Phys. 114—General Physics	4
*Elective	3-4	*Elective	3-4

*German or Russian recommended.

Junior Program

Ch.E. 201—Inter. Ch.E. Calc. -----	3	C.E. 222—Strength of Materials -----	3
Chem. 201—Organic Chemistry -----	3	C.E. 223—Materials Testing Lab. -----	1
Chem. 203—Organic Chemistry Lab. -----	2	Chem. 202—Organic Chemistry -----	3
Chem. 313—Physical Chemistry -----	3	Chem. 314—Physical Chemistry -----	3
Elective from Group A or B** -----	3	Chem. 315—Physical Chemistry Lab. -----	2
*Eng. Literature or History Elec. -----	3	Ch.E. 310—Unit Operations -----	3

*Both History and English Literature electives must be taken—order immaterial.

Senior Program

Ch.E. 220—Thermodynamics & Kinetics -----	3	Ch.E. 340—Design and Instrum. -----	5
Ch.E. 311—Unit Operations -----	3	Engr. 380—Colloquium -----	1
Ch.E. 312—Unit Operations Lab. -----	2	E.E. 309—Applied Electronics -----	3
Ch.E. 320—Unit Processes -----	3	Elective from Group A or B** -----	3
E.E. 201—Circuits and Measurements -----	4	Ch.E. 211—Materials & Metallurgy -----	3
Social Science or Humanities Elec. -----	3	Social Science or Humanities Elec. -----	3

**Curriculum must include one course from each group.

Group A Electives:

Math. 311—Numerical Anal. -----	3
Math. 315—Adv. Appl. Math. -----	3
Math. 341—Advanced Calc. -----	3

Group B Electives:

Phys. 115—General Physics (Modern) -----	3
Phys. 314—Modern Spectroscopy -----	3
Phys. 349—Atomic Physics -----	3
Phys. 360—Solid State Physics -----	3
Phys. 365—Nuclear Reactor Theory -----	3

BACHELOR OF SCIENCE IN CIVIL ENGINEERING

The curriculum for this degree is planned to give the fundamental training necessary for a broad understanding of the profession. The following fields are studied: structures and foundations, hydraulics, highway and railroad layout and construction, water supply, sanitation, and surveying. Courses which consider the economic and legal aspects of engineering are required. Although the program is comprehensive, it allows the student elective hours of study during the last two years. By a proper choice of these electives he may extend his study of one or more of the several fields discussed above, pursue further the business aspects of engineering, or broaden himself in a more general way by a judicious selection of courses in various divisions of the University.

Sophomore Program

First Semester	Hours	Second Semester	Hours
C. E. 120—Applied Mechanics -----	3	C. E. 121—Applied Mechanics -----	3
Phys. 113—General Physics -----	4	Phys. 114—General Physics -----	4
Geol. 103—Engineering Geology -----	3	Math. 102—Analytic Geometry and Calculus -----	4
Math. 101—Analytic Geometry and Calculus -----	4	C. E. 224—Fluid Mechanics -----	3
C. E. 10—Plane Surveying or Humanities or Social Science Elective --	3	C. E. 240—Hydraulics Lab. -----	1
		C. E. 10—Plane Surveying or Humanities or Social Science Elective --	3

Junior Program

C. E. 213—Advanced Surveying -----	3	C. E. 223—Strength of Comp. Sec. -----	2
C. E. 260—Route Engineering -----	2	C. E. 330—Structural Analysis II -----	4
C. E. 222—Strength of Materials -----	3	C. E. 249—Water Supply Engineering -----	3
C. E. 223—Materials Testing Laboratory -----	1	Math. 315—Advanced Applied Mathematics -----	3
C. E. 230—Structural Analysis I -----	4	C. E. 270—Engineering Economy -----	3
C. E. 241—Hydrology -----	2	Humanities or Social Science Elective --	3
Humanities or Social Science Elective --	3		

Senior Program

C. E. 224—Soil Mechanics -----	3	C. E. 331—Structural Design II -----	3
C. E. 231—Structural Design I -----	4	C. E. 250—Sewerage and Sewage Treatment -----	3
E. E. 201—Circuits and Measurements -----	4	C. E. 261—Highway Engineering -----	3
Bus. L. 255—Business Law -----	3	Electrical Engineering Elective -----	3
M. E. 221—Thermodynamics I -----	3	Basic Science Elective or Engr. Sc. -----	2-3
Humanities or Social Science Elec. -----	3	Humanities or Social Science Elec. -----	3
		English Literature Elective -----	3

BACHELOR OF SCIENCE IN ELECTRICAL ENGINEERING

It is the aim of the department of Electrical Engineering to provide the background of general information and basic knowledge of principles which enable a student to analyze situations and to think intelligently and effectively in the field. The curriculum has grown out of the belief that these are the most essential foundation elements for the various specialized fields, as well as for early advancement in practical electrical engineering. A choice of electives offers a limited amount of specialization in automatic control, power, or communications.

Sophomore Program

First Semester	Hours	Second Semester	Hours
E. E. 103—Basic Electrical Engineering	5	E. E. 104—Basic Electrical Engineering	5
Physics 113—General Physics	4	Physics 114—General Physics	4
C. E. 120—Applied Mechanics	3	C. E. 121—Applied Mechanics	3
Math. 101—Analytic Geom. and Calc.	4	Math. 102—Analytic Geom. and Calc.	4
Humanities or Social Science Elective	3	Humanities or Social Science Elective	3

Junior Program

E. E. 303—Electrical Machines	4	E. E. 304—Electrical Machines	4
C. E. 222—Strength of Materials	3	M. E. 221—Thermodynamics	3
Math. 315—Adv. Applied Math.	3	Math. 316—Adv. Applied Math.	3
E. E. 307—Engineering Electronics	3	E. E. 308—Engineering Electronics	3
Humanities or Social Science Elective	3	Phys. 115—General Physics (Modern)	3
		Humanities or Social Science Elective	3

Senior Program

E. E. 335—Electric and Magnetic Fields	3	E. E. 336—Fields and Waves	3
E. E. 301—Communication Engineering	4	E. E. 302—Communication Engineering	4
E. E. 334—Advanced Circuits	3	Phys. 360—Solid State Physics	3
Technical Elective	3	Technical Electives	6
Humanities or Social Science Elective	6		

Technical Electives

E. E. 342—Symmetrical Components	3	E. E. 341—Power Transmission	3
E. E. 321—High Frequency Tech.	3	E. E. 331—Servomechanisms	3
E. E. 310—Semiconductors	3	E. E. 351—Instrumentation	3
		E. E. 322—High Frequency Tech.	3
		E. E. 328—Illuminating Engr.	3
		E. E. 310—Semiconductors	3

BACHELOR OF SCIENCE IN MECHANICAL ENGINEERING

The technical option in mechanical engineering emphasizes machine design and heat engineering. The work of the first two years is general and fundamental and parallels that in the other engineering curricula; that of the last two years is comprehensive, and includes courses in the theory, development, and design of machines and mechanical equipment, and in thermodynamics and its application to steam generators, steam engines and turbines, combustion engines, and refrigeration and air conditioning. To give a well-rounded curriculum, work is included in other fields of engineering, such as fluid mechanics and electrical engineering. Limited specialization is provided for by elective courses.

The industrial option provides the same kind of fundamental engineering background as the technical option, but, instead of focusing the early training on machine design and heat engineering, emphasizes training in fields leading to careers in industrial management.

TECHNICAL OPTION

First Semester		Second Semester	
	Hours		Hours
Ec. 101—Principles of Economics	3	C. E. 120—Applied Mechanics	3
E. G. 3—Slide Rule	1	Ind. A. 13—General Cold Metals	3
Ind. A. 14—General Hot Metals	3	Math. 102—Anal. Geom. & Calc.	4
Math. 101—Anal. Geom. & Calc.	4	Phys. 114—General Physics	4
Phys. 113—General Physics	4	Humanities or Social Science Elective	3
Elective	2	Elective	2

Junior Program

Ch. E. 211—Materials and Metallurgy	3	C. E. 222—Strength of Materials	3
C. E. 121—Applied Mechanics	3	C. E. 223—Materials Testing Laboratory	1
E. E. 201—Circuits & Measurements	4	E. E. 202—Electrical Machinery	3
M. E. 201—Kinematics	3	Math. 315—Advanced Applied Math.	3
M. E. 221—Thermodynamics I	3	M. E. 113—Metal Processing	2
M. E. 231—Thermodynamics I Laboratory	1	M. E. 222—Thermodynamics II	3
History Elective	3	M. E. 232—Thermodynamics II	3
		Laboratory	1
		M. E. 302—Dynamics of Machinery	3

Senior Program

C. E. 224—Fluid Mechanics	3	Engr. 380—Colloquium	1
E. E. 309—Applied Electronics	3	M. E. 229—Heat Power Laboratory	2
M. E. 303—Machine Design I	3	M. E. 304—Machine Design II	3
M. E. 323—Thermodynamic Analysis I	3	M. E. 314—Heat Transfer	3
English Literature Elective	3	M. E. 324—Thermodynamic Analysis II	3
Humanities or Social Science Elective	3	Phys. 115—General Physics (Modern)	3
		Humanities or Social Science Elective	3

INDUSTRIAL OPTION

First Semester		Second Semester	
	Hours		Hours
Ec. 101—Principles of Economics	3	C. E. 120—Applied Mechanics	3
E. G. 3—Slide Rule	1	Ind. A. 14—General Hot Metals	3
Ind. A. 13—General Cold Metals	3	Mgt. 211—Industrial Management	3
Math. 101—Anal. Geom. & Calc.	4	Math. 102—Anal. Geom. & Calc.	4
Phys. 113—General Physics	4	Phys. 114—General Physics	4
Elective	2	Elective	2

Junior Program

Acct. 111—Industrial Accounting	3	C. E. 222—Strength of Materials	3
Ch. E. 211—Materials and Metallurgy	3	C. E. 223—Materials Testing Lab.	1
C. E. 121—Applied Mechanics	3	E. E. 202—Electrical Machinery	3
E. E. 201—Circuits & Measurements	4	M. E. 221—Thermodynamics I	3
M. E. 113—Metal Processing	2	M. E. 231—Thermodynamics I Lab.	1
History Elective	3	Mgt. 321—Motion and Time Study	3
		Phys. 115—General Physics (Modern)	3
		Stat. 303—Statistical Quality Control	3

Senior Program

C. E. 270—Engineering Economy	3	Engr. 380—Colloquium	1
E. E. 309—Applied Electronics	3	Mgt. 302—Production Management	3
M. E. 201—Kinematics	3	M. E. 303—Machine Design I	3
Humanities or Social Science Elective	3	M. E. 381—Industrial Plant Design	3
Elective from the following:		Elective from the following:	
Ec. 335—Labor Economics	3	Ch. E. 310—Unit Operations	3
Mgt. 312—Admin. of Personnel	3	C. E. 224—Fluid Mechanics	3
Psych. 351—Seminar—Prob. in Industry	3	M. E. 304—Machine Design II	3
Mgt. 308—Production Planning	3	M. E. 323—Thermodynamics Analysis I	3
Elective from the following:		English Literature Elective	3
Math. 315—Advanced Applied Math.	3	Humanities or Social Science Elective	3
M. E. 222—Thermodynamics II	3		
M. E. 227—Steam Power Plants	3		

BACHELOR OF SCIENCE IN HOME ECONOMICS

The program in Home Economics at Ohio University is both cultural and professional. It is built upon a three-phase plan including:

- (a) General education in communications, natural science, humanities, and social science

(b) The basic "core" courses in all areas of Home Economics

(c) Professional courses in the major field and related areas

The student has a wide choice in selecting a field of specialization. Eleven business or professional curricula are available, all of which lead to the Bachelor of Science in Home Economics degree. The curricula are as follows:

Professional

Foods and Nutrition (Dietetics)	Home Economics in Business:
Clothing and Textiles with Design	Journalism
Home Economics Education	Commercial Foods and Equipment
Home Economics Extension	Fashion Merchandising
Child Development with Nursery Education	Home Planning and Decoration
Research	Radio-TV

Non-Professional

Home and Family Living

Career opportunities for the home economist in the business and the professional world are numerous. Hospitals, restaurants, hotels, and college residence halls are seeking the major in *Dietetics*. Public utility companies and manufacturers or retailers of food seek women trained in *Commercial Foods and Equipment* for promotional activities, writing publications, or experimental work with foods and equipment.

The girl interested in *Textiles* will find opportunities in textile testing or in developing promotional and educational programs for textile concerns. Clothing manufacturers, pattern companies, and clothing departments in retail stores seek the *Clothing* specialist for promotional work, designing garments, merchandising and buying, alterations, comparison shopping, or fashion coordination.

Home Economics Teachers, both vocational and nonvocational, are always in demand. The School of Home Economics is approved by the State of Ohio Department of Education for training vocational home economics teachers.

The broad program of *Home Economics Extension* in rural and urban areas of Ohio requires a large staff trained in extension for positions as home demonstration agent, extension specialist, or 4-H Club leader.

The home economist interested in *Child Development* will find opportunities in private or industrial nursery schools, or in welfare agencies caring for young children. By meeting the state requirements for certification, she may teach young children in public schools.

Newspapers, women's magazines, and radio and television companies seek the home economist with a flair for writing, speaking, or demonstrating, since she is trained to direct her program to the homemaker and consumer.

The *Home Planning and Decoration* specialist finds opportunities in gift and decorating establishments helping the consumer in the selection of furnishings for the home. Or she may become associated with magazine or advertising concerns writing articles or assisting with promotional programs.

SPECIAL FACILITIES. The program in home economics at Ohio University is not confined to the classroom and laboratories; other activities and experiences are encouraged. A nursery school and a home management house are maintained by the department. Nearby high school home economics laboratories are available for student teaching. Off-campus activities have been developed with the Ohio State Extension Service, with the Health Department, with business organizations, with department stores, and with radio-TV stations to give the student opportunities for field work in specialized areas. Affiliation with the Merrill-Palmer School in Detroit, Michigan, provides a unique experience for the junior or senior desiring a semester of specialized training in all areas related to marriage and the family.

CORE COURSES. The School of Home Economics offers a group of core courses that have no prerequisites, and are open to any student in the University. These courses are the basic courses taken by all students in home economics. However, they emphasize the practical aspects of home economics and are planned for women students desiring basic training in the activities relating to the successful management of a home. Individual courses may be elected.

H. Ec. 1-2—Foods, Nutrition and Meal Planning
 H. Ec. 3-4—Clothing Selection and Construction
 H. Ec. 5—Child Development
 H. Ec. 6—Family Living
 H. Ec. 7—The Home and Its Furnishings
 H. Ec. 108—Consumer Problems of the Family
 H. Ec. 110—Textiles
 H. Ec. 161—Home Nursing and Family Health

MINORS IN HOME ECONOMICS. Programs may be set up with some one phase of home economics as a minor field. For instance, students in any department in the University may elect a minor in Home and Family Living, or Clothing and Textiles, or Foods and Nutrition, or Child Development and Family Life, or School Lunch and Food Service Management.

I FRESHMAN AND SOPHOMORE PROGRAM

The requirements of the University College relative to high school deficiencies, English composition, physical education, and speech must be fulfilled. In addition the freshman and sophomore program should include the following basic courses:

	Hours		Hours
H. Ec. 51—Orientation in Home Economics	2	H. Ec. 1-2—Foods, Nutrition and Meal Planning	6
Science—(See Note 1)	6-8	H. Ec. 3-4—Clothing Selection and Construction	4
Soc. 1—General Sociology	3	H. Ec. 5—Child Development	3
Psych. 1—General Psychology	3	H. Ec. 6—Family Living	3
Ec. 11 or 101—Principles of Economics	3	H. Ec. 7—The Home and its Furnishings	2
Art 1, 2—Drawing and Design (6) or Art 91—Design and Composition (3)	3-6	H. Ec. 108—Consumer Problems of the Family	2
		H. Ec. 110—Textiles	2

Note 1: Chemistry is required of those majoring in Foods and Nutrition, Clothing and Textiles, or Commercial Foods. Students following other curricula in home economics may take either Biol. 1-2—Living World, Zool. 3-4—Principles of Zoology, Physical Sc. 3, 4—Physical World, or chemistry. Chemistry is strongly recommended for those students who do not know which curriculum they wish to follow.

II JUNIOR AND SENIOR PROGRAM

If the student wishes to prepare for a career in some phase of home economics, she follows one of the eleven professional curricula during her junior and senior years. If she is not interested in a professional or business career, she may follow the nonprofessional curriculum with emphasis on home and family living.

PROFESSIONAL CURRICULA

Foods and Nutrition (Dietetics)

	Hours		Hours
H. Ec. 125—Family Nutrition	3	Psych. 5—Educational Psychology	3
H. Ec. 322—Experimental Cookery	3	Psych. 233—Industrial Psychology	3
H. Ec. 326—Advanced Nutrition	3	H. Ec. 342—Marketing and Food Cost	
H. Ec. 327—Quantity Cookery	3	Control	2
H. Ec. 329—Nutrition in Disease	2	H. Ec. 343—Equipment and Furnishings	2
H. Ec. 351—Home Management	2	H. Ec. 348—Organization and	
H. Ec. 353—Home Management		Management	3
Laboratory	3	Zool. 235—Elements of Physiology	4
Acct. 75—Elementary Accounting	3	Zool. 241—Elementary Bacteriology	4
Chem. 113—Organic Chemistry	4	Zool. 309—Biological Chemistry	4
Chem. 117—Organic Chemistry			
Laboratory	2		

Clothing and Textiles with Merchandising

H. Ec. 212-213—Flat Pattern Design	4	Ec. 12 or 102—Principles of Economics	3
H. Ec. 313—Clothing and Textiles		Jour. 322—Feature and Magazine	
for the Consumer	2	Writing	3
H. Ec. 315—History of Costume and		Mkt. 155—Marketing Principles	3
Textiles	2	Six hours selected from the following:	
H. Ec. 316—Tailoring	3	Acct. 75—Elementary Accounting	3
H. Ec. 318—Advanced Textiles	3	Mgt. 211—Industrial Management	3
H. Ec. 319a and b—Special studies in		Mkt. 271—Principles of Personal	
Textiles and Clothing	6	Selling	2
H. Ec. 351—Home Management	2	Psych. 135—Psychology of Advertising	
H. Ec. 353—Home Management		and Selling	3
Laboratory	3	Sec. St. 220—Business Communications	3
Advt. 155—Advertising Principles	3	H. Ec. 390d—Field Work in	
Art 28—Figure Drawing	2	Merchandising	4
Art 120—Textiles Design	3		
Art 137—Fashion Design	2		

Clothing and Textiles with Design

H. Ec. 212-213—Flat Pattern Design	4	Art 28—Figure Drawing	4-6
H. Ec. 313—Clothing and Textiles		Art 120—Textile Design	3
for the Consumer	2	Art 137—Fashion Design	2
H. Ec. 315—History of Costume and		Art 321—Advanced Fashion Design	
Textiles	2	and Illustration	2-4
H. Ec. 316—Tailoring	3	Six hours selected from the following:	
H. Ec. 318—Advanced Textiles	3	Art 107—Advanced Design	3
H. Ec. 319a and b—Special studies in		Art 113—Lettering	3
Textiles or Clothing	6	Art 147-148—Advertising Design	4
H. Ec. 351—Home Management	2	Art 301—Individual Problems	1-3
H. Ec. 353—Home Management			
Laboratory	3		

Home Economics Education

H. Ec. 161—Home Nursing and		H. Ec. 353—Home Management	
Family Health	2	Laboratory	3
H. Ec. 125—Family Nutrition	3	H. Ec. 368—Demonstration Tech-	
H. Ec. 172—Advanced Child		niques	2
Development	2	Zool. 241—Elementary Bacteriology	4
H. Ec. 268—Teaching of Home		Humanities—Literature, Philosophy, Fine	
Economics	3	Arts, or Foreign Language	6-8
H. Ec. 316—Tailoring	3	Psych. 5—Educational Psychology	3
H. Ec. 325—Comparative Studies in		Ed. 130—Secondary Education	3
Foods	3	Ed. 229—Curriculum and Teaching	
H. Ec. 327—Quantity Cookery or		Practices	4
H. Ec. 330—Workshop in Home		Ed. 281—Student Teaching in	
Furnishings	3	Secondary Schools	7
H. Ec. 334—Household Equipment	3		
H. Ec. 351—Home Management	2		

Home Economics Extension

H. Ec. 161—Home Nursing and Family Health -----	2	H. Ec. 368—Demonstration Techniques -----	2
H. Ec. 125—Family Nutrition -----	3	Zool. 241—Elementary Bacteriology -----	4
H. Ec. 172—Advanced Child Development -----	2	Psych. 5—Educational Psychology -----	3
H. Ec. 268—Teaching of Home Economics -----	3	Ed. 130—Secondary Education -----	3
H. Ec. 316—Tailoring -----	3	Ed. 229—Curriculum and Teaching Practices -----	4
H. Ec. 325—Comparative Studies in Foods -----	3	Ed. 280—Observation and Participation -----	3
H. Ec. 330—Workshop in Home Furnishings -----	3	Ed. 281—Student Teaching in Secondary Schools -----	4
H. Ec. 334—Household Equipment -----	3	Six hours selected from the following:	
H. Ec. 351—Home Management -----	2	H. Ec. 369—Home Economics in Adult Education -----	3
H. Ec. 353—Home Management Laboratory -----	3	H. Ec. 390a—Field Work in Home Economics Extension -----	4-6
		Jour. 322—Feature and Magazine Writing -----	3

Child Development with Nursery Education

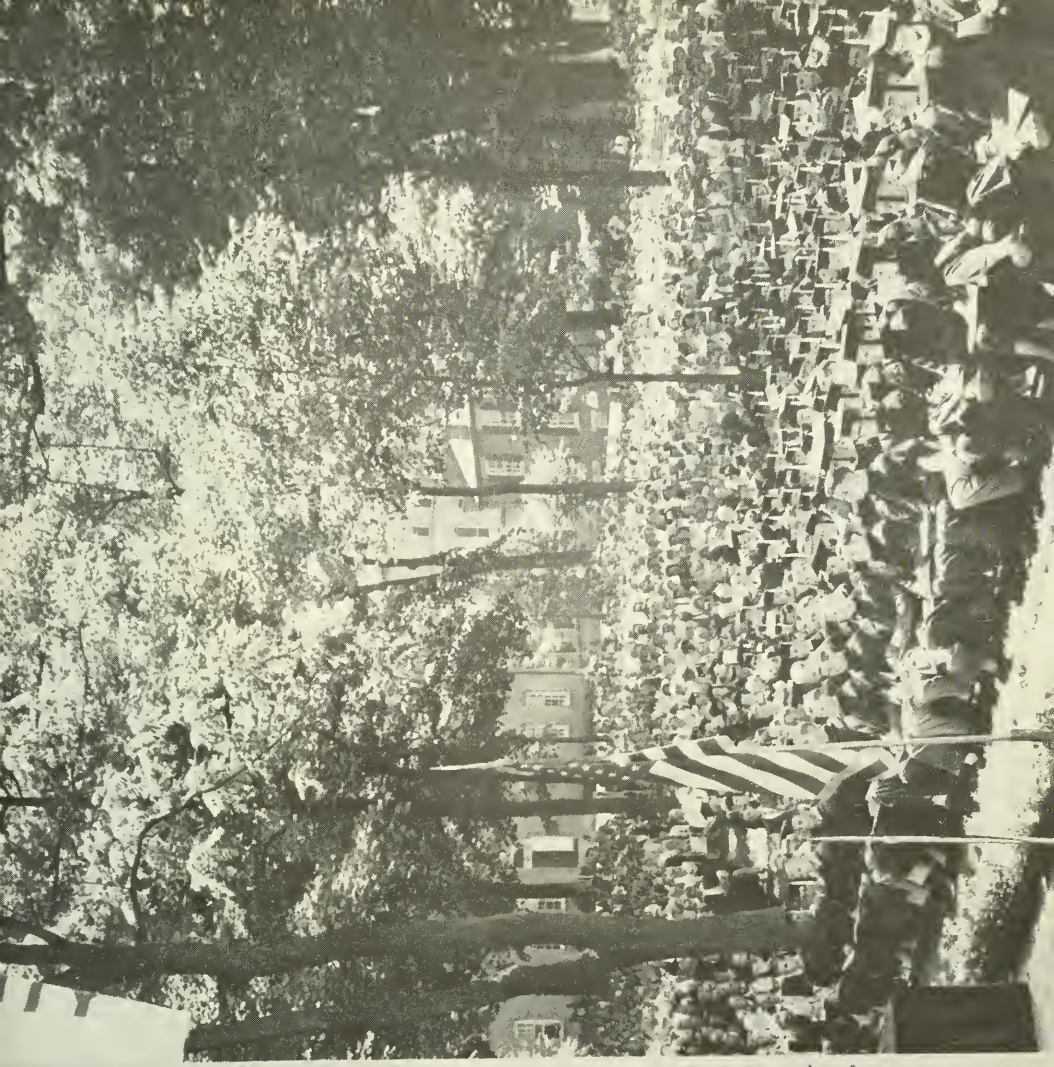
H. Ec. 161—Home Nursing and Family Health -----	2	Psych. 5—Educational Psychology -----	3
H. Ec. 125—Family Nutrition or H. Ec. 155—Nutrition for the Elementary School -----	2-3	Ed. 100—Development of Kindergarten -----	2
H. Ec. 172—Advanced Child Development -----	2	Ed. 101—Materials and Methods in Kindergarten-Primary Education -----	2
H. Ec. 351—Home Management -----	2	Ed. 102—Literature for Children -----	3
H. Ec. 353—Home Management Laboratory -----	3	Mus. 72—Music Fundamentals -----	2
H. Ec. 377—Techniques with Young Children -----	3	Minor directed toward Child Welfare*	
H. Ec. 379 a and b—Guidance of Nursery School Children -----	6	Soc. 2—Modern American Communities -----	3
Zool. 241—Elementary Bacteriology (4) or -----		Soc. 133—Social Work in the American Community -----	3
Biol. 1—The Living World (3) or -----		Soc. 234—Child Welfare -----	3
Phys. Sci. 3—The Physical World (3) -----	3-4	H. Ec. 375 a and b—Readings in Child Development or Family Living -----	4
		H. Ec. 378—Administration of Group Care of Young Children -----	3

Home Economics with Journalism†

	Hours		Hours
H. Ec. 161—Home Nursing and Family Health -----	2	Humanities—Literature, Philosophy, or Fine Arts -----	6-8
H. Ec. 125—Family Nutrition -----	3	Jour. 107—Newspaper Reporting -----	3
H. Ec. 172—Advanced Child Development -----	2	Jour. 146—Typography, Mechanics, and Make-up -----	3
H. Ec. 316—Tailoring -----	3	Jour. 322—Feature and Magazine Writing -----	3
H. Ec. 330—Workshop in Home Furnishings -----	3	8-9 hours selected from the following:	
H. Ec. 334—Household Equipment -----	3	Jour. 217—Newspaper and Magazine Editing -----	3
H. Ec. 351—Home Management -----	2	Jour. 247—Newspaper Advertising and Layout -----	3
H. Ec. 353—Home Management Laboratory -----	3	Jour. 323—Advanced Feature and Magazine Writing -----	2
		Jour. 375—Specialized Journalism -----	3
		Jour. 327—Public Relations Techniques -----	3
		Eng. 290—Creative Writing -----	3
		Eng. 293—Advanced Composition -----	3

*A minor directed toward Child Welfare is required with this curriculum. An exception is made for students in Child Development who want to meet state certification requirements for Kindergarten as well as training for Nursery School. In that case, the Director of the School of Home Economics will waive the sociology requirements and make substitutions necessary for certification.

†Students may combine Journalism with a special area of Home Economics. In such cases Journalism courses may be substituted for the Business courses as listed under the Clothing and Textiles, or the Commercial Food and Equipment curricula.





Commercial Food and Equipment

	Hours		Hours
H. Ec. 125—Family Nutrition	3	Speech 3—Public Speaking	2
H. Ec. 322—Experimental Cookery	3	Six hours selected from the following:	
H. Ec. 325—Comparative Studies in		Sec. St. 220—Business Communications	3
Foods		Mkt. 271—Principles of Personal	
H. Ec. 327—Quantity Cookery	3	Selling	2
H. Ec. 334—Household Equipment	3	Econ. 309—Public Utilities	2-3
H. Ec. 340—Problems in Food and		Radio-TV 79—Introduction to	
Nutrition	3	Radio-TV	2
H. Ec. 351—Home Management	2	Jour. 247—Newspaper Advertising and	
H. Ec. 353—Home Management		Layout	3
Laboratory	3	Jour. 323—Advanced Feature and	
H. Ec. 368—Demonstration Techniques	2	Magazine Writing	2
Advt. 155—Advertising Principles	3	Psych. 135—Psychology of Advertising	
Ec. 12 or 102—Principles of Economics	3	and Selling	3
Chem. 113—Organic Chemistry	4	Eng. 290—Creative Writing	3
Mkt. 155—Marketing Principles	3	Eng. 293—Advanced Composition	3
Jour. 322—Feature and Magazine		H. Ec. 390d—Field work in	
Writing	3	Retail Merchandising	4
Zool. 241—Elementary Bacteriology	4		

Home Planning and Decoration

H. Ec. 530—Workshop in Home		Advt. 155—Advertising Principles	3
Furnishings	3	Mkt. 155—Marketing Principles	3
H. Ec. 331—Economics of Furnishings	2	Six hours selected from the following:	
H. Ec. 334—Household Equipment	3	Jour. 322—Feature and Magazine	
H. Ec. 351—Home Management	2	Writing	3
H. Ec. 353—Home Management		Mgt. 211—Industrial Management	3
Laboratory	3	Mkt. 271—Principles of Personal	
Arch. 55-56—Architectural Graphics	4	Selling	2
Art 120—Textile Design	3	Psych. 135—Psychology of	
Art 125—Art in Every Day Life	2	Advertising and Selling	3
Art 271-272—Interior Design	6	Sec. St. 220—Business Communications	3
Art 313—Advanced Interior Design	3	H. Ec. 390d—Field work in	
Ec. 12 or 102—Principles of Economics	3	Retail Merchandising	4

Home Economics with Radio-TV*

	Hours		Hours
H. Ec. 161—Home Nursing and		Humanities—Literature, Philosophy, or	
Family Health	2	Fine Arts	6
H. Ec. 125—Family Nutrition	3	Jour. 107—Newspaper Reporting	3
H. Ec. 172—Advanced Child		Speech 2—Voice and Articulation	2
Development	2	Speech 34—Oral Interpretation of	
H. Ec. 316—Tailoring	3	Literature	3
H. Ec. 330—Workshop in Home		Radio-TV 79—Introduction to Radio-	
Furnishings	3	TV	2
H. Ec. 334—Household Equipment	3	Radio-TV 180—Radio Speech	3
H. Ec. 351—Home Management	2	5-6 hours selected from the following:	
H. Ec. 353—Home Management		Radio-TV 147—Radio Workshop	2-4
Laboratory	3	Radio-TV 225—Radio Production	3
H. Ec. 368—Demonstration		Radio-TV 226—Advanced Radio	
Techniques	2	Production	2
		Radio-TV 216—Continuity Writing	2

NON-PROFESSIONAL CURRICULUM

Home and Family Living

H. Ec. 172—Advanced Child		H. Ec. 353—Home Management	
Development	2	Laboratory	3
H. Ec. 125—Family Nutrition	3	Social Science Electives	9
H. Ec. 161—Home Nursing and		Fin. 75—Personal Finance	2
Family Health	2	Humanities—Philosophy, Fine Arts, or	
H. Ec. 316—Tailoring	3	Foreign Language	6-8
H. Ec. 330—Workshop in Home		Literature Electives	6
Furnishings	3		
H. Ec. 334—Household Equipment	3		
H. Ec. 351—Home Management	2		

*Students may combine Radio-TV with a special area of Home Economics. In such cases Radio-TV courses may be substituted for the Business courses as listed under the Clothing and Textiles, or the Commercial Food and Equipment curricula.

BACHELOR OF SCIENCE IN INDUSTRIAL TECHNOLOGY

The purpose of this curriculum is to develop prospective industrial employees who will have a general background of knowledge concerning the pattern of operation and common manufacturing processes of modern industry.

Some of the required courses are intended to develop understanding of the economic and legislative controls within which industry operates; others deal with problems of the worker in his relationships with labor groups and management; and laboratory courses give practice with tools and machines for the development of technical knowledge and skill related to manufacturing and production.

Freshman Program

The University College Program should include:

	Hours		Hours
Eng. 3—Composition	3	Eng. 4—Composition	3
Hist. 1, 101, Govt. 1, 101 or Soc. Sc. 9	3	Hist. 2, 102, Govt. 2, 102, or Soc. Sc. 10	3
Chem. 3—General	4	Chem. 4 and 99	4
Speech 1—Fundamentals	1	Ind. A. 13—Gen. Cold Metals	3
Ind. A. 3—Wood, Industry	3	E. G. 2—Engineering Drawing	2
E. G. 1—Engineering Drawing	2	Physical Education	1
Physical Education	1		

Sophomore Program

Ec. 11 or 101—Principles	3	Ec. 12 or 102—Principles	3
Math. 15—Freshman	5	E. G. 3—Slide Rule	1
Ind. A. 131—Ceramics	2	Psych. 1 or 101—General	3
Ind. A. 133—Prac. Electricity	3	Ind. A. 14—Gen. Hot Metals	3
Ind. A. 144—Graphic Arts Proc.	3	Ind. A. 134—Power & Trans.	3
		Ind. A. 203—Ind. Electronics	3

Junior Program

Ind. A. 105—Mat. & Finishes	3	Sec. St. 220—Business Commun.	3
Mgt. 211—Industrial	3	Mgt. 321—Motion & Time Study	3
Phys. 5 or 113	4	Phys. 6 or 114	4
Acct. 111—Industrial	3	E. G. 115—Machine Drafting	3
Restricted Electives	4	Restricted Electives	3

Senior Program

Bus. Law 255	3	Mgt. 302—Production	3
Restricted Electives	9	Restricted Electives	9
Electives	4-5	Electives	4-5

THE COLLEGE OF ARTS AND SCIENCES

RUSH ELLIOTT

DEAN

SAMUEL J. JASPER

ASSISTANT DEAN

Archaeology and Antiquities

Astronomy

Botany

Chemistry

Classical Languages

English

General Studies

American Studies

Biology

Great Books

Physical Science

Social Science

Geography and Geology

Government

History

Human Relations

Mathematics

Modern Languages

German

Romance Languages

Russian

Philosophy

Physics

Psychology

Sociology

Zoology

THE COLLEGE OF ARTS AND SCIENCES

Ohio University remained a liberal arts college for almost a hundred years after it was founded. With the expansion of curricula and organization of new colleges and divisions during the last fifty years, the College of Arts and Sciences has held to what has been the central purpose of the college for a century and a half; namely to provide opportunities for the student to secure a general, liberal education. Since its focus is on more general concerns of man, it is broader than an education for immediate application. A liberal education affords an acquaintance with the language, skills, and methods in some area at a level that is beyond introductory concepts and methods. It prepares the student for more advanced graduate or professional training in some field or for immediate vocation.

These objectives are achieved through courses which make up the curriculum of the college, and through degree requirements so arranged that the student gets specialized knowledge in some particular field or area together with a fundamental education in the humanities, natural sciences, and the social sciences.

The College includes the following departments:

Botany	Human Relations
Chemistry	Mathematics and Astronomy
Classical Languages	Philosophy
English	Physics
Geography and Geology	Psychology
General Studies	Romance Languages
German and Russian	Sociology
Government	Zoology
History	

Departments of the College are accredited or recognized by leading professional associations. These include the Council on Social Work Education, the American Chemical Society, the American Psychological Association, and the Board of Registry of the American Society of Clinical Pathologists.

A student enrolled in any college at Ohio University may elect courses in any other college with considerable freedom. Thus, much of the course work required by the other colleges is offered by the faculty of the College of Arts and Sciences. In turn, a student pursuing a degree in this college may elect courses, in some instances completing a major, in departments of the other colleges.

When a student enters the College of Arts and Sciences from the University College, or by transfer from another college or university, he is assigned an adviser who is a member of the faculty teaching in the area in which the student expects to major. The faculty adviser will assist the student in the preparation of his schedule each semester so

that a proper sequence of courses in the major, and appropriate related courses are selected. The *student is responsible* for being certain that all requirements for the degree are being met.

The College offers two degrees: the Bachelor of Arts and the Bachelor of Science. The requirements for the degrees represent a considerable distribution of studies, yet they require sufficient stress in a major field to insure some degree of mastery of at least one area. All candidates in the College of Arts and Sciences must have a point-hour ratio of 2.0 (C) on all hours attempted, but including only the final hours and points in repeated courses. This applies to the major also.

The normal resident load requirement for a student enrolled in the College is a minimum of 15 semester hours and a usual maximum load of 17 semester hours when not on probation, and a minimum of 12 semester hours and a maximum of 14 semester hours when on probation. Any exception to these load requirements must be approved by the dean of the College.

Students who do not complete all University College requirements in the freshman year are expected to have these completed before being advanced to the junior year. Students who have requirements which involve courses numbered below 100 should start meeting such requirements not later than the beginning of the sophomore year. This is particularly recommended in the case of foreign language. Registration for courses numbered below 100 is prohibited for juniors and seniors in many areas, and is discouraged in all areas.

BACHELOR OF ARTS

A total of 124 hours is required for the degree of Bachelor of Arts subject to the following conditions:

(a) At least 60 hours must be in courses numbered above 100. Courses above 100 for which elective credit is given do not count toward this requirement. Elective credit is given for courses taken in divisions or departments for which no major is provided in the College, as, for example, industrial arts, military science, and physical education, and for courses in departments not listed as meeting degree requirements. A maximum of eight elective credit hours in applied music; four elective credit hours in physical education activities courses, including the two-hour requirement (credit in excess of four hours will not be allowed; registration will be permitted for audit only); and six elective hours in industrial arts, are accepted toward the 124 hour degree requirement. Exception is made for courses in Education above 100 required for teacher certification as described under "Preparation for Teaching" in this section of the catalog. Further exceptions may be made only on review by and approval of the dean of the College.

(b) At least six hours in the major field must be in courses numbered above 300. (See preceding paragraph.)

(c) A minimum total of 70 hours must include: English composition; foreign language, if required; courses in humanities, natural sciences, and social sciences, as required (see "e" below); and all courses in the major in any department in the College of Arts and Sciences, or in the major in an approved department in another college.

(d) Not more than 40 hours in any one department may be counted in the 124 hours required.

(e) No course may satisfy two of the following requirements, and the courses selected to meet the requirements in foreign languages, humanities, social sciences and natural sciences must be from departments other than that of the major. For example, an English major may not apply courses in English toward the humanities requirement, even though these be courses not required for the major, or in excess of the hours required for the major. Likewise, a zoology major must meet the natural science requirement in departments other than zoology.

The specific requirements for the degree are:	Hours
ENGLISH COMPOSITION: Courses 3-4 (unless excused) -----	6
PHYSICAL EDUCATION: Activities courses as required -----	0-2
SPEECH: Fundamentals of Speech -----	1
FOREIGN LANGUAGE: Complete in sequence through course 102 in a language, or equivalent -----	0-16

Achievement of proficiency in a foreign language equivalent to that attained upon completion of two college years of one language is required. Exception is made for the student with two years of high school Latin who may complete the requirement by taking one year of Greek. A student who has had equivalent preparation to the above requirement may satisfy this requirement by passing an examination given by the language department concerned.

A student who is a major in one foreign language must meet the language degree requirement in another language.

HUMANITIES: Select courses from two or more of the following
with at least six hours in one ----- 12

- (a) Archaeology
- (b) English courses numbered above 100
- (c) Foreign language courses other than those necessary to complete the foreign language requirement
- (d) Philosophy
- (e) Humanities 7, 8 or 107, 108—Great Books
- (f) Fine arts

Of the fine arts courses, only those in the history and appreciation of fine arts satisfy the 12-hour group requirement. Music 5 (Music Appreciation) may be taken except in cases where Fine Arts 123-124 has been previously completed.

NATURAL SCIENCES: A one-year course in one department and at
least a one-semester course in another ----- 12

A minimum of a one-year course in biological science and a one-year course in physical science must be completed in either high school or college. If either requirement was not completed in high school, this must be done in college as part of the 12-hour requirement, and in courses which must include laboratory work as part of the course. If the requirement was completed in high school, the 12-hour requirement may be met in any two of the following science departments or courses:

Biological Sciences:

- (a) Biology 1-2
- (b) Botany
- (c) Psychology 209, 210, or 307, except for psychology majors
- (d) Zoology

Physical Sciences:

- (a) Astronomy
- (b) Chemistry
- (c) Geography 175 or 176 except for geography majors
- (d) Geology
- (e) Physics
- (f) Physical Science 3, 4
- (g) Psychology 105, except for psychology majors
- (h) Mathematics (except 1, 2, 34)

Students who have completed Biology 1-2 cannot receive credit for Botany 3-4 or Zoology 3-4. Students who have completed Botany 3-4 or Zoology 3-4 cannot receive credit for Biology 1-2.

SOCIAL SCIENCES: Select courses from two or more departments with at least six hours in some one department 12

- (a) Economics
- (b) History
- (c) Human Relations
- (d) Geography (except 175, 176)
- (e) Government
- (f) Psychology (except 105, 209, 210, or 307)
- (g) Sociology
- (h) Social Science 9, 10 or 209, 210

MAJOR: See departmental requirements for total hours and particular courses in the major and related fields recommended or required.

- (a) A minimum of twenty-four hours (exclusive of hours earned in methods courses), including six hours in courses numbered above 300, selected from a single department (see specific department requirements), in consultation with an adviser from that department; or
- (b) Dual Major—Fifteen hours in courses numbered above 100, including six hours in courses numbered above 300, in each of two closely related departments, chosen with the approval of an adviser from each of the two departments. Courses taken in either or both of two departments for a dual major, even though not required for the major, cannot be used to meet the general area requirements in language, humanities, natural science, and social science.

A transfer student is required to complete at least eight hours toward the major in courses at the 100 level or above at Ohio University, the courses to be approved by the department chairman. A transfer student completing the dual major is required to complete at least six hours at the 100 level or above in each of two departments at Ohio University, the courses to be approved by the chairmen of the two departments.

A student may complete a major for the Bachelor of Arts degree in any of the following departments by meeting the specific requirements outlined above and the number of hours and courses specified by the department concerned: botany, chemistry, classical languages, dramatic art and speech, economics, English, geography, geology, German, government, history, home economics, journalism, mathematics, music, painting and allied arts, philosophy, physics, psychology, romance languages, sociology, speech therapy, and zoology.

The specific requirements in the departments in the College of Arts and Sciences are indicated in the descriptive material covering the department. Requirements in departments outside the College are determined by an adviser in the department.

It is left to the discretion of the dean of the College to approve modification of these requirements in exceptional cases.

BACHELOR OF SCIENCE

A total of 124 hours is required for the degree of Bachelor of Science subject to the following conditions:

(a) At least 60 hours must be in courses numbered above 100. Courses above 100 for which elective credit is given do not count toward this requirement. Elective credit is given for courses taken in divisions or departments for which no major is provided in the College, as, for example, industrial arts, military science, physical education, and for courses in departments not listed as meeting degree requirements. A maximum of eight elective credit hours in applied music; four elective credit hours in physical education activities courses, including the two-hour requirement (credit in excess of four hours will not be allowed; registration will be permitted for audit only); and six elective hours in industrial arts, are accepted toward the 124-hour degree requirement. Exception is made for courses in Education above 100 required for teacher certification as described under "Preparation for Teaching" in this section of the catalog. Further exceptions may be made only on review by and approval of the dean of the College.

(b) At least six hours in the major field must be in courses numbered above 300 (see the preceding paragraph).

(c) A minimum total of 70 hours which must include: English composition; foreign language, if required; courses in humanities, natural sciences, and social sciences, as required (see "e" below); and all courses in the major in any department in the College of Arts and Sciences, or in the major in an approved department in another college.

(d) Not more than 45 hours in any one department may be counted in the 124 hours required.

(e) No course may satisfy two of the following requirements.

The specific requirements for the degree are:

Hours

ENGLISH COMPOSITION: Courses numbered 3-4 (unless excused) --	6
PHYSICAL EDUCATION: Activities courses as required -----	0-2
SPEECH: Fundamentals of -----	1
FOREIGN LANGUAGE: Two college years, or equivalent -----	0-16

Two years of one high school language are considered equivalent to one year in college. The requirement may be satisfied by taking more than one language. Students who enter with two years of language, but with less than four years have a one-year requirement in language. Students who enter with only one year of language have a two-year language requirement. Credit is not extended toward meeting the language requirement for the first semester of a beginning language unless the second semester is completed.

HUMANITIES: Select courses from two or more of the following
with at least six hours in one ----- 12

- | | |
|--|---|
| (a) Archaeology | (d) Philosophy |
| (b) English courses numbered above 100 | (e) Humanities 7, 8 or 107, 108—Great Books |
| (c) Foreign language courses other than those necessary to complete the foreign language requirement | (f) Fine Arts |

Of the fine arts courses only those in the history and appreciation of fine arts satisfy the 12-hour group requirement. Music 5 (Music Appreciation) may be taken except in cases where Fine Arts 123-124 has been previously completed.

NATURAL SCIENCES: A one-year course in one department and at least a one-semester course in another ---- 12

A minimum of a one-year course in biological science and a one-year course in physical science must be completed in either high school or college. If either requirement was not completed in high school, this must be done in college as part of the 12-hour requirement. If the requirement was completed in high school, the 12-hour requirement may be met in any two of the following departments or courses:

Biological Sciences:

- (a) Biology 1-2
- (b) Botany
- (c) Psychology 209, 210, or 307
- (d) Zoology

Physical Sciences:

- (a) Astronomy
- (b) Chemistry
- (c) Geography 175, 176
- (d) Geology
- (e) Physics
- (f) Psychology 105
- (g) Mathematics (except 1, 2, 34)

Courses meeting this requirement must be selected from departments other than the one in which the student is a major. Students who have completed Biology 1-2 cannot receive credit for Botany 1-2 or Zoology 3-4. Students who have completed Botany 3-4 or Zoology 3-4 cannot receive credit for Biology 1-2.

SOCIAL SCIENCES: Select courses from two or more departments
with at least six hours in some one department 12

- | | |
|---------------------------------|--|
| (a) Economics | (e) Government |
| (b) History | (f) Psychology (except 105, 209, 210 or 307) |
| (c) Human Relations | (g) Sociology |
| (d) Geography (except 175, 176) | (h) Social Science 9, 10 or 209, 210 |

MAJOR: See departmental requirements for particular courses in the major and related fields recommended or required.

- (a) A minimum of twenty-four hours (exclusive of hours earned in methods courses), including six hours in courses numbered above 300, selected from one of the following departments: Botany, Chemistry, Geology, Home Economics, Mathematics, Physics, or Zoology in consultation with an adviser from that department; or
- (b) Dual Major—Fifteen hours in courses numbered above 100, including six hours in courses numbered above 300, in each of two of the above departments, chosen with the approval of an adviser from each of the two departments. Courses taken in either or both of two departments for a dual major, even though not required for the major, cannot be used to meet the general area requirement in natural science.

A transfer student is required to complete at least eight hours toward the major in courses at the 100 level or above at Ohio University, the courses to be approved by the department chairman. A transfer student completing the dual major is required to complete at least six hours at the 100 level or above in each of the two departments at Ohio University, the courses to be approved by the chairmen of the two departments.

It is left to the discretion of the dean of the College to approve modification of these requirements in exceptional cases.

SPECIAL CURRICULA

AMERICAN STUDIES PROGRAM

The American Studies major is an interdisciplinary program for students especially interested in the growth and nature of American culture. It enables the student to integrate work in American literature, social sciences, and philosophy. While students in this program will share a core of work in American Studies, flexibility is provided through a choice of field of concentration: Economics, English, Geography, Government, History, Philosophy, or Sociology.

Students will participate with professors in informal group meetings to discuss books, ideas, problems, and methods pertaining to this integrated program. A senior seminar, American Studies 297-298, designed to raise central questions concerning methods and assumptions of the various disciplines and their interrelationships, will be required of all American Studies majors.

The major requirement for the Bachelor of Arts degree consists of courses in two categories: A. General core, 33 hours, consisting of Government 1, Sociology 1, Economics 11, History 101, 102, English 111, 112, Geography 202, Philosophy 212, and Seminar in American Studies 297-298. B. Special concentration, a minimum of 18 hours in one of the following departments: Economics, English, Geography, Government, History, Philosophy, or Sociology. Courses are to be determined by the department, but individual guidance will be provided in both of the above categories by a member of the American Studies Committee.

APPLIED MODERN PHYSICS

This curriculum is recommended for students who are interested in atomic energy, industrial physics, or space science, and who plan to prepare for graduate study in physics or who wish to enter government or industrial laboratories at the bachelor's degree level. This program is planned for students entering with four years of high school mathematics, including trigonometry, and one year of chemistry. General university requirements in English composition, physical education, speech, and foreign language are outlined in the University College section of the catalog.

To enroll in the physics curriculum, an entering freshman should rank in the upper half of his high school graduating class. Qualified students should enter this program as freshmen in order to complete the curriculum in four years.

The following sequence of courses is recommended as part of the total program for each year:

Freshman Program			
First Semester	Hours	Second Semester	Hours
*Math. 16—Analytic Geometry and Calculus -----	5	*Math. 101—Analytic Geometry and Calculus -----	4
Phys. 5—Introduction to Physics -----	4	Phys. 6—Introduction to Physics -----	4

*A student entering with only three years of high school mathematics would enroll in Math. 15-16 the first year and Math. 101-102 the second year.

Sophomore Program

First Semester		Second Semester	
Chem. 3—General	4	Chem. 4, 99—General and Qual. Analysis	4
*Math. 102—Analytic Geometry and Calculus	4	Phys. 115—General	3
Phys. 111—Principles of Contemporary Physics	3	Phys. 120—Intermediate Laboratory	1

Junior Program

First Semester		Second Semester	
Math. 315—Advanced Applied	3	Math. 316—Advanced Applied	3
Phys. 201—Mechanics	3	Phys. 202—Mechanics	3
Phys. 219—Electricity and Magnetism	3	Phys. 220—Electricity and Magnetism	3
Phys. 330—Electronic Circuits	2	Phys. 327-331—Adv. Laboratory (one approved course)	2

Senior Program

First Semester		Second Semester	
Phys. 349—Atomic and Nuclear	3	Phys. 350—Atomic and Nuclear	3
Phys. 342—Neutron Laboratory	3	Phys. 332—Nuclear Laboratory	2
Phys. 352—Quantum Mechanics	3	Phys. 360—Solid State	3

PREPARATION FOR DENTISTRY

The minimum requirement for admission to dental school is the completion of at least 64 semester hours of college work which must include general chemistry, organic chemistry, physics, zoology, and English. A broad training in courses other than natural science is urged. Pre dental students have the same degree-in-absentia privileges as pre-medical students (see "Preparation for Medicine").

The following sequence of courses is recommended. The requirements pertaining to English composition, physical education, and speech in the freshman year are not indicated in the curriculum below. (See the University College section of the catalog.)

Freshman Program

The University College Program should include:		Hours	
Chem. 3-4, 99—General and Qual. Analysis	8	Zool. 3-4—Principles of Requirements and/or electives**	6
Math. 9—Fundamentals of	3		

Sophomore Program

Chem. 113—Organic	4	Zool. 120—Comparative Vertebrate Anatomy	4
Chem. 117—Organic Chemistry Laboratory	2	Zool. 311—General Bacteriology†	4
Phys. 5, 6—Introduction to	8	Requirements and/or elective courses in English are recommended ***	
Zool. 107—Prin. of Heredity	3		

Junior Program

Phil. 110—Introd. to or	3	Zool. 301—Comparative Vertebrate Anatomy—Mammalian†	4
Phil. 209—Logic	3	Zool. 305—Principles of Physiology	4
		Requirements and/or electives ***	

PREPARATION FOR FORESTRY

The curriculum outlined may be followed, and by meeting the requirements of the College of Arts and Sciences, the Bachelor of Arts or Bachelor of Science degree may be earned.

*A student entering with only three years of high school mathematics would enroll in Math. 15-16 the first year and 101-102 the second year.

**See requirements in the University College section of the catalog.

***See requirements for Bachelor of Arts or Bachelor of Science degree.

†Suggested.

Freshman Program

The University College Program should include:

	Hours		Hours
Agr. 1 or 2—Intro. to _____	3	Bot. 3-4—General _____	6
or _____		Math. 15—Freshman _____	5
Agr. 30—Forestry _____	3	Requirements and/or electives*	

Sophomore Program

Bot. 117—Dendrology _____	3	Phys. 5—Introduction to _____	4
Chem. 3-4,99—General and _____		Zool. 3-4—Principles of _____	6
Qual. Analysis _____	8	Requirements and/or electives**	
C. E. 10—Plane Surveying _____	3		
Geol. 106—Agricultural _____	3		

Junior and Senior Program

All preforestry students should consult the preforestry adviser concerning course requirements in the junior and senior years. These requirements will vary with the student's preparation, with the degree program the student elects to follow, and the field of concentration. It is recommended that appropriate selections from the following courses be included:

Agr. 216—Crops and Soils _____	4	Bot. 318—Wood Technology _____	3
Bot. 105—Elem. Plant Physiology _____	3	Bot. 324—Forest Pathology _____	3
Bot. 203—Plant Ecology _____	4	Zool. 216—Animal Communities _____	4
Bot. 211—Plant Anatomy _____	3	Zool. 219—General Entomology _____	4

PREPARATION FOR GOVERNMENT FOREIGN SERVICE

Students desiring to prepare for the government foreign service examinations, which are given twice yearly, are advised to concentrate their attention on those aspects of economics, government, and history which relate to world problems. Competency in one or more foreign languages, such as French, Spanish, German, or Russian is essential, in addition to superior command of English diction.

PREPARATION FOR LAW

A student in the College of Arts and Sciences who plans to enter law school normally completes the specific requirements for the degree of Bachelor of Arts. No special curriculum is prescribed. The prelaw student may complete a major in the area of his principal interest. He is advised to select courses from as many of the following as possible: English composition and literature and American literature; history, with a preference for English and American; government; economics; sociology; at least one laboratory science and an additional advanced course is advised; mathematics; philosophy; ethics; logic; accounting; psychology; and a foreign language, preferably Latin. Courses in speech and training in expression, as well as activities that develop the capacity for independent thought and action, are recommended.

The Ohio Supreme Court has ruled that a student entering law school after January 1, 1960 must be able to show that he possesses an undergraduate degree from an approved college if he wishes to take the Ohio Bar Examination. Law schools in the state of Ohio are supplementing this Supreme Court ruling by requiring the degree of all entering students beginning in the fall of 1960, regardless of the state in which they plan to take the bar examination.

*See requirements in the University College section of the catalog.

**See requirements for Bachelor of Arts or Bachelor of Science degree.

The degree-in-absentia privilege is available to students who do not plan to seek admission to an Ohio law school. Students who have completed 94 semester hours at Ohio University with a point-hour ratio of 2.0 or above, on all hours attempted, and have satisfied the requirements for the degree of Bachelor of Arts or Bachelor of Science (including University College requirements) may obtain the degree after completing a full year's work in an accredited school of law of the quality prescribed for the bachelor's degree at Ohio University, including advancement, without condition, to the second year of law school. Prior to entering the school of law, the student must secure a statement in writing from the dean giving the senior-in-absentia privilege.

PREPARATION FOR MEDICAL TECHNOLOGY

Preparation in medical technology trains students in laboratory methods used in hospitals, physicians' offices, public health bureaus, and other laboratories concerned with medical diagnosis and investigation.

Technologists who wish to be recognized by the American Society of Clinical Pathologists and entitled to use the initials, *M.T.*, must have had a minimum of 64 semester hours of work in a college or university recognized by the regional accrediting association, and a year's training in an approved school of medical technology.

The Ohio University—Mount Carmel Hospital Affiliated Training for Medical Technologists fulfills these requirements and affords the student an opportunity to earn the bachelor's degree. After completing six semesters (a minimum of 94 semester hours with a point-hour ratio of 2.0 or above in all hours attempted, including the major, and with courses which meet degree requirements) at Ohio University, and while still registered in the University, prospective technologists spend twelve months in residence at Mount Carmel Hospital, Columbus, Ohio. Upon satisfactory completion of the University and hospital training requirements, the student is eligible to receive from Ohio University the degree of Bachelor of Science and to take the qualifying examination given by the Board of Registry of the American Society of Clinical Pathologists for the professional designation of Medical Technologist. Credit toward the degree for the hospital training program is extended only in case all basic science courses which are required for admission to the Mount Carmel Hospital affiliated training program are completed previous to the hospital residence.

The W. K. Kellogg Foundation of Battle Creek, Michigan, has granted the University the sum of \$4,000 to be used as a loan fund for students during their year at Mount Carmel Hospital. Application for aid is filed with the chairman of the Department of Zoology. Expenses to be met during the year in Columbus are room rent and a small sum for books and laboratory gowns. No fees are charged by Mount Carmel Hospital, nor does it pay any remuneration, except that it furnishes board.

The requirements pertaining to English, physical education, and speech in the freshman year are not indicated in the curriculum below. (See the University College section of the catalog.)

Freshman Program			
The University College Program should include:			
	Hours		Hours
Chem. 3-4, 99—General and Qual. Analysis	8	Zool. 3-4—Principles of Requirements and/or electives*	6
Sophomore Program			
Chem. 107—Quantitative Analysis	4	Zool. 107—Principles of Heredity	3
Chem. 113—Organic	4	Zool. 121—Elements of Anatomy	3
Chem. 117—Organic Chemistry		Zool. 304—Histology	4
Laboratory	2	Zool. 311—General Bacteriology	4
		Requirements and/or electives**	4
Junior Program			
Phil. 110—Introduction to	3	Zool. 245—Clinical Technic	2
or		Zool. 309—Biological Chemistry	4
Phil. 209—Logic	3	Zool. 312—Pathogenic Bacteriology	4
Zool. 225—Animal Microtechnic	1-2	Zool. 316—Animal Parasites	4
Zool. 235—Elements of Physiology	4	Requirements and/or electives**	
Senior Program			
Med. Tech. 291—Urinalysis	3	Med. Tech. 295—Histologic Technic	4
Med. Tech. 292—Hematology	5	Med. Tech. 296—Basal Metabolism and Electrocardiography	1
Med. Tech. 293—Bacteriology, etc.	11		
Med. Tech. 294—Chemistry	8		

PREPARATION FOR MEDICINE

Most medical colleges require their prospective students to spend from six to eight semesters in undergraduate preparation. A number of medical colleges give preference to holders of a bachelor's degree, and some require the degree for admission.

For most colleges the requirements for admission include general chemistry, organic chemistry, physics, zoology, comparative anatomy, embryology, and English. Courses in government, history, economics, sociology, philosophy, and literature are strongly advised. A year's course in mathematics (Math. 9-10 or 15-16) is required by some and advised by most schools. A student who plans to complete only three years at Ohio University is advised to meet the degree requirements so as to be eligible for the degree-in-absentia privilege.

No specific area as far as the major is concerned is required by Ohio University in undergraduate preparation for medicine. The major may vary with the medical school which the student wishes to attend. In some cases a dual major may be approved.

DEGREE IN ABSENTIA. Students who have completed 94 semester hours at Ohio University with a point-hour ratio of 2.0 or above, on all hours attempted, and have satisfied the requirements for the degree of Bachelor of Arts or Bachelor of Science, may obtain the degree after completing a full year's work in an accredited school of medicine of the quality prescribed for the bachelor's degree at Ohio University, including advancement, without condition, to the second year of medical school, provided that before entering the school of medicine, the student secures a statement in writing from the dean giving the senior-in-absentia privilege.

*See requirements in the University College section of the catalog.

**See requirements for the Bachelor of Science degree.

The following sequence of courses is recommended. The requirements pertaining to English composition, physical education, and speech are not indicated in the curriculum below. (See the University College section of the catalog.)

Freshman Program

The University College Program should include:

	Hours		Hours
Chem. 3-4, 99—General and Qualitative Analysis	8	Zool. 3-4—Principles of	6
Math. 9-10—Fundamentals of	6	Requirements and/or electives (student having a foreign language req't. is advised to register for language.)*	
or			
Math. 15-16—Freshman	10		

Sophomore Program

Chem. 107—Quantitative Analysis	4	Zool. 107—Principles of Heredity	3
Gk. 27—Greek Words in English,	2	Zool. 120—Comparative Vertebrate Anatomy	4
Phil. 110—Introduction to Philosophy	3	Requirements and/or electives (courses in English are recommended)**	
or			
Phil. 209—Logic	3		

Junior Program

Chem. 113—Organic	4	Physics 5, 6 Introduction to	8
Chem. 117—Organic Chemistry Laboratory	2	Requirements and/or electives**	
or			
Chem. 201-202—Organic	6		
and			
Chem. 203-204—Organic Chem. Lab.	4		

Senior Program

Chem. 311—Physical [†]	3	Zool. 305—Principles of Physiology [†]	4
Zool. 301—Comparative Vertebrate Anatomy—Mammalian [†]	4	Zool. 311—General Bacteriology [†]	4
Zool. 302—Vertebrate Embryology [†]	4	Requirements and/or electives**	

PREPARATION FOR NURSING

Ohio University does not have a school of nursing; however, students interested in nursing can obtain the Bachelor of Arts or the Bachelor of Science degree from Ohio University and then complete nurses training in an approved school of nursing. In many cases the time required for the hospital training is shortened as a result of the student entering the program with a bachelor's degree.

A recommended alternative is the completion of two years of prescribed college work at Ohio University and transfer to a collegiate school of nursing which grants the Bachelor of Science in Nursing degree upon completion of the program. The professional program in the collegiate school of nursing requires 32 months for completion, including vacation periods.

A student who has completed a hospital school of nursing program and wishes to enroll at Ohio University for a degree in the College of Arts and Sciences will be granted a limited amount of credit toward the degree, following a review of her record by the University Examiner and the dean of the College.

*See requirements in the University College section of the catalog.

**See requirements for the Bachelor of Arts or the Bachelor of Science degree.

[†]Students leaving at the end of the third year should elect this in the third year.

[‡]Suggested.

The following curriculum includes courses which provide background for a nursing program, and will lead to the completion of the bachelor's degree at Ohio University. If the first two years of the program are completed, a student will be prepared for admission to a collegiate school of nursing.

Freshman Program

The University College Program should include:

	Hours		Hours
Chem. 3-4, 99—General and Qualitative Analysis -----	8	Psych. 5—Educational -----	3
Psych. 1—General -----	3	Zool. 3-4—Principles of -----	6
		Requirements and/or electives*	

Sophomore Program

Chem. 113—Organic -----	4	H. Ec. 1-2—Foods, Nutrition and Meal Planning -----	6
Chem. 117—Organic Chemistry Laboratory -----	2	Soc. 101—Principles of -----	3
Eng. 101, 102—Soph. Eng. Literature or -----		Zool. 107—Principles of Heredity -----	3
Eng. 111, 112—Chief American Writers -----	3-6	Zool. 121—Elements of Anatomy -----	3
		Zool. 311—General Bacteriology -----	4
		Requirements and/or electives**	

Junior Program

Phil. 110—Introduction to -----	3	Zool. 235—Elements of Physiology -----	4
Phil. 209—Logic -----	3	Zool. 312—Pathogenic Bacteriology ¹ -----	4
Psych. 310—Behavior Pathology -----	3	Requirements and/or electives**	

Senior Program

Requirements and/or electives**

PREPARATION FOR OCCUPATIONAL THERAPY

Colleges offering programs in Occupational Therapy require two years of college work in preparation for the two years of professional work leading to the degree. The first two years may be taken at Ohio University, after which transfer can be made to another institution where the work will be completed and the degree conferred.

The first two years of college should include English 3-4 and six hours of literature; Chem. 3-4, 99, or Physics 5, 6; physical education; psychology, 6 hrs.; sociology, 6 hours.; Zoology 3-4 and 107. The remainder of the credit to complete the minimum of 64 hours may be elected from education, foreign language, science, etc. The particular requirements of the school to which the student may wish to transfer should be followed in planning the program at Ohio University.

Further information relative to requirements and the profession of Occupational Therapy may be obtained by writing the American Occupational Therapy Association, 250 West 57th Street, New York 19, N.Y.

PREPARATION FOR OPTOMETRY

The requirements for admission to schools of optometry are not uniform. A minimum of two years of college work is required and should include the following courses: English 3-4; Chem. 3-4, 99; for-

*See requirements in the University College section of the catalog.

**See requirements for the Bachelor of Arts or the Bachelor of Science degree.

¹Suggested.

eign language (the requirement must be determined from the particular school the student wishes to attend); humanities; Math. 15-16, 101-102; physical education; Physics 5, 6 or 113-114; and Zoology 3-4 and 107. Total hours to make a minimum of 64 should include electives from literature, philosophy and psychology, if these have not been selected in the above outlined courses.

Further information relative to requirements and the profession of optometry may be obtained by writing to the American Optometric Association, Department of Public Information, 4030 Chouteau Avenue, St. Louis 10, Missouri.

PREPARATION FOR PHARMACY

Most schools of pharmacy require two years (minimum of 64 semester hours) of prescribed college courses. The following program will meet these entrance requirements.

Freshman Program	
	Hours
Biol. 1-2—Living World	6
or Bot. 3—General	3
and Zool. 3—Principles of	3
Chem. 3-4, 99—General, and	
Qualitative Analysis	8
Eng. 3-4—English Composition	6
Humanities and/or social science	6
Math. 15—Freshman	5
Physical Education	2
Speech 1	1

Sophomore Program	
Chem. 107—Quantitative Analysis	4
Chem. 113—Organic	4
and	
Chem. 117—Organic Chem. Lab.	2
or	
Chem. 201-202—Organic Chemistry	6
and	
Chem. 203-204—Organic Chem. Lab. ..	4
Econ. 11-12—Principles of	6
Phys. 5,6—Introduction to	3
Humanities and/or social science	

PREPARATION FOR PHYSICAL THERAPY

The following program, extending over a period of three years at Ohio University, is recommended to those students who wish to enter the field of physical therapy. Upon completion of 94 semester hours, if a scholastic average of 2.0 or better on all hours attempted has been maintained, the student is eligible for admission to a school of physical therapy fully accredited by the American Medical Association. An institution affiliating in this program is the Frank E. Bunts Educational Institute of the Cleveland Clinic Foundation, Cleveland, Ohio, which offers a fourteen month course in physical therapy. Upon satisfactory completion of the three year program at Ohio University, including degree requirements, and the course in physical therapy, Ohio University will award the student the bachelor's degree.

Freshman Program	
	Hours
Chem. 3-4, 99—General,	
and Qual. Analysis	8
Math. 9—Fundamentals of	3
Requirements and/or electives (a course in swimming is advised for the physical education requirement).*	
Psych. 1—General	3
Zool. 3-4—Principles of	6

*See requirements in the University College section of the catalog.

Sophomore Program

Psych. 103—Child	3	Zool. 107—Principles of Heredity	3
Soc. 101—Principles of	3	Zool. 241—Elementary Bacteriology	4
Zool. 133-134—Anatomy, Kinesiology		Requirements and/or electives (Psych. 5	
and Physiology	8	Educational Psychology, is advised)*	5

Junior Program

Phil. 110—Intro. to	3	Zool. 304—Histology	4
or		Requirements and/or electives (activity	
Phil. 209—Logic	3	courses in physical education, and Sociol-	
Phys. 5,6 Intro. to	8	ogy 204 are advised)*	

PREPARATION FOR SOCIAL WORK

The Department of Sociology is a member of the Council on Social Work Education, and offers a limited sequence of courses for pre-professional training for social work in conjunction with a major in sociology. These courses also offer students preparing for medicine, law, teaching, and nursing an opportunity to become acquainted with the social services which they will encounter frequently in their professional activities.

At present there is a national need for professionally trained social workers. Generous financial assistance is available to enable qualified students to obtain a professional education at one of the many accredited graduate schools of social work throughout the nation. Students intending to pursue a career in social work should plan to continue their preparation beyond the undergraduate level, and should inquire regarding scholarships at the institution of their choice.

(1) *Preparation for Professional Training.* The undergraduate foundation for professional training at graduate schools of social work is a broad liberal arts education, with a concentration of studies in the social, psychological, and biological sciences. Students should elect sociology as their major field, with courses in social work to be chosen in consultation with their department adviser. Students majoring in other fields are encouraged to register for courses in preprofessional social work (see Sociology in Courses of Instruction section of the catalog), and to consult with the department adviser concerning professional opportunities.

(2) *Preparation for Employment.* Some students will wish to seek employment with welfare agencies immediately upon completion of the Bachelor of Arts degree, and should meet the requirements outlined under Sociology in the Courses of Instruction section of the catalog. There are various positions in social agencies for which graduate education is not required. The duties of these positions can be better performed by the graduate who has had some orientation to social work through the recommended preprofessional courses.

*See requirements for the Bachelor of Arts or the Bachelor of Science degree.

PREPARATION FOR TEACHING

A student pursuing either the Bachelor of Arts or Bachelor of Science degree may meet the special requirements in education for certification to teach in the secondary schools in Ohio by completing the following:

Psych. 5—Educational Psychology	3
Ed. 130—Secondary Education	3
Ed. 229—Curriculum and Teaching Practices	4
A methods course (optional)	2-3
Ed. 281—Student Teaching	2-12
Total hours required	19-20

The student is responsible for meeting the subject matter requirements for the teaching major and minor as established by the Division of Certification of the State of Ohio Department of Education. It is normally recommended that certification be obtained in two teaching fields.

PREPARATION FOR THEOLOGY

No fixed sequence of courses is outlined for a student who wishes to enter a theological seminary. A broad general background is advised, with a major in philosophy or the social sciences suggested. A strong background in English is urged, and courses in speech are particularly valuable. The student should check the entrance requirements of the theological seminary of his choice and plan his course to meet these requirements as well as the requirements for the Bachelor of Arts degree at Ohio University.

PREPARATION FOR VETERINARY MEDICINE

Schools of veterinary medicine require 64 semester hours of academic credit, exclusive of physical education and military science, for admission. The following program will meet such requirements.

Freshman Program

	Hours		Hours
Chem. 3-4, 99—General, and		Physical Education	2
Qualitative Analysis	8	Speech 1—Fundamentals of	1
Eng. 3-4—Composition	6	Zool. 3-4—Principles of	6
Math. 9-10—Fundamentals of	6	Humanities and/or social science	3-5

Sophomore Program

Chem. 107—Quantitative Analysis	4	Zool. 107—Principles of Heredity	3
Chem. 113—Organic	3	Humanities and/or social science to make	
Chem. 117—Organic Chem. Laboratory	2	a total of 32 hours	
Phys. 5-6—Introduction to	8		

PREPARATION FOR WORK IN JUVENILE DELINQUENCY AND CRIMINOLOGY

Police and court services and the supervision and training of juvenile delinquents, young offenders, and criminals offer career positions for college graduates with special training in these fields. An increasing number of positions are open to sociologists in administration and research in penal institutions and probation and parole systems. Sociologists have served as chairmen of Federal and state parole boards, wardens of penitentiaries, superintendents of reformatories and juvenile training schools, prison counselors, staff members of diagnostic clinics, and actuaries for parole boards.

Sociologists make a distinctive contribution to the field of corrections through scientific research in prison administration, criminological statistics, prison culture, and correctional treatment. Research training is based upon an undergraduate curriculum such as that described under Sociology in the Courses of Instruction section of the catalog, with related work in government and psychology, but requires, both in planning and execution, a level of professional training beyond the Bachelor of Arts degree. Students interested in careers in the field should plan to take advantage of the financial assistance available to them at most universities on the basis of superior scholarship for the purpose of obtaining graduate degrees.

THE COLLEGE OF COMMERCE

PAUL L. NOBLE

DEAN

Accounting

Advertising-Marketing

Agriculture

Business Law

Economics

Finance

Management

Secretarial Studies

Statistics

THE SCHOOL OF JOURNALISM

LOREN J. HORTIN

DIRECTOR

Advertising-Management

Magazine Journalism

News Writing and Editing

Public Relations

Radio-Television News

THE COLLEGE OF COMMERCE

Consistent with its character and history as a pioneer educational institution, Ohio University inaugurated courses in accounting and secretarial studies in 1893 at a time when few colleges and universities offered instruction in commerce or business administration. As the conception of collegiate training for business broadened, the offerings were steadily expanded until today the College of Commerce offers comprehensive programs of study in business and in economics which lead to the degree of Bachelor of Science in Commerce. The College is accredited by and is a member of the American Association of Collegiate Schools of Business.

The College also includes the Department of Agriculture, which offers programs of study leading to the degree of Bachelor of Science with a major in Agriculture, the Department of Secretarial Studies, which offers programs of study leading to the degree of Bachelor of Science in Secretarial Studies, and the School of Journalism, which offers theoretical and practical programs of study leading to the degree of Bachelor of Science in Journalism.

It is deemed as essential to teach students the art of living as it is to teach them how to earn a living. Further, it is a duty of every college graduate to participate in and, if possible, to assume responsibility for intelligent leadership in civic, governmental, professional, and social activities of life. Every student in the College of Commerce, therefore, is required to take some courses offered by the other colleges of the University in order to widen his scope of knowledge and interest.

Through a wise use of the elective hours given in all programs of study in the College of Commerce, a student may stress an interest by choosing courses offered by any other college of the University. Such courses are open to students in the College of Commerce on the same basis as they are open to students in those colleges. The College of Commerce, in turn, aims to serve students enrolled in the other colleges of the University and admits them to its courses on the same basis as students registered in the College of Commerce.

The mutual relationship between the colleges whereby a student in one college may take courses in another gives a breadth of combinations in education which only a university can offer. The colleges of Education and Commerce, for example, cooperate in offering teaching majors in agriculture and commerce and the colleges of Applied Science and Commerce cooperate in offering industrial technology or an industrial option in mechanical engineering. However, it is impossible to set up predetermined curricula for each and every possible combination. For this reason, the College of Commerce stresses its faculty advisory system for students. Each student may choose as an adviser a member of the College of Commerce faculty who is a specialist in the student's field of interest. Student and adviser together then mold the skeletal outlines of courses into an integrated program of study best suited to the student's individual needs.

A candidate for a degree in the College of Commerce must complete the general university requirements for graduation which include a minimum of 124 semester hours with a point-hour ratio of 2.0 (C) on all hours attempted, but including only the final hours and points in repeated courses. This point-hour ratio requirement applies to his total record and to his major or equivalent as determined by the college. For a student with transferred credit, this rule applies to both his cumulative record, which includes transferred credits, and to his Ohio University record exclusive of transferred credits.

BACHELOR OF SCIENCE WITH A MAJOR IN AGRICULTURE

The curriculum in agriculture is designed to provide the student with a broad, basic background in the areas of agriculture, business, and science. Persons completing the work for the degree are trained to take responsible positions in the various non-farming business and scientific phases of agriculture. This curriculum also provides opportunities for the student to achieve the basic skills and training necessary for farming and for advanced study in agriculture and business.

Considerable emphasis is stressed in the laboratory and classroom on the practical application of scientific techniques in farm operations. Opportunities for practical experience in all fields are provided in the greenhouse and on the Ohio University farm.

Students enrolled in this curriculum take a minimum of 30 hours in agriculture courses of which 23 hours are in required courses; 30 hours in business courses of which 18 hours are in required courses; and 25 hours in science courses of which 13 hours are in required courses in addition to regular University requirements.

For a teaching major in agriculture see the College of Education section of the catalog. A Preforestry curriculum is offered in the College of Arts and Sciences and is described in its section of the catalog.

CURRICULUM IN AGRICULTURE

The university requirements pertaining to English composition, physical education, and speech are not indicated in the curriculum below. See UNIVERSITY COLLEGE.

Freshman Program			
The University College Program should include:			
First Semester	Hours	Second Semester	Hours
Agr. 1—Introduction to Agriculture*	3	Agr. 2—Introduction to Agriculture*	3
Ec. 11—Principles of Economics	3	Ec. 12—Principles of Economics	3
Sophomore Program			
Acct. 75—Elementary Accounting	3	Acct. 76—Elementary Accounting	3
Bot. 3—General Botany	3	Bot. 4—General Botany	3
Agr. 30—Forestry	3	Geol. 106—Agricultural Geology	3
Commerce elective	3	Agriculture elective	3
Science elective	3	Science elective	3
Junior Program			
Agr. 121—Livestock Management	4	Agr. 216—Crops and Soils	4
Mkt. 155—Marketing Principles	3	Fin. 101—Financial Institutions	3
Commerce elective	3	Agriculture elective	3
Zool. 241—Elementary Bacteriology	3	Science elective	3
or			
Zool. 219—General Entomology	4		

*Not required for students who have had 3 years of vocational agriculture in high school.

Senior Program

Agr. 201—Agricultural Practices -----	3	Agr. 202—Agricultural Practices -----	3
Agr. 217—Soil Conservation -----	3	Agriculture elective -----	3
Agr. 235—Farm Management -----	3	Commerce elective -----	3
Speech 3—Public Speaking -----	2	Science elective -----	3
Commerce elective -----	3		

A minimum of eight hours of required agriculture electives must be selected from the following courses:

Agr. 1,2—Introduction to Agriculture--3,3	Agr. 320—Agricultural Organizations --	3
Agr. 102—Gardening -----	Ind. A. 51—Farm Shop -----	3
Agr. 104—Fruit Production -----		3

A minimum of twelve hours of required commerce electives must be selected from the following courses:

Advt. 155—Advertising Principles -----	3	Mgt. 211—Industrial Management -----	3
Bus. L. 255-256—Business Law -----	3-3	Sec. St. 220—Business	
Fin. 121—Corporation Finance -----	3	Communications -----	3
Advanced Economics -----	2-3	Stat. 155—Business Statistics -----	4

A minimum of 6 hours of required science electives may be selected from any laboratory science.

BACHELOR OF SCIENCE IN COMMERCE

All students following programs of study leading to the degree of Bachelor of Science in Commerce must take the basic subjects indicated in the freshman, sophomore, junior, and senior programs of the curriculum outline. The sequence of the courses introduces a logical development of the student's knowledge but it can be varied to fit his or her particular interest.

The core curriculum permits a maximum of elective hours through which the needs of each individual student may be met and his interests may be developed. There are only two limitations on the choice of elective hours. They must be chosen so that no fewer than 54 semester hours required for graduation are in commerce and economics subjects, and no fewer than 47 semester hours are in subjects offered in other fields. This distribution of semester hours includes those earned in the University College and the basic subjects listed in the curriculum outline. The second limitation on the choice of elective semester hours is that they must be approved by the Dean of the College or the student's faculty adviser. This approval safeguards the student's own best interests.

FIELDS OF SPECIALIZATION. It is felt that a student who follows a program of studies leading to the degree of Bachelor of Science in Commerce automatically has chosen a field of concentration. Further concentration, therefore, by way of a major is not required; however, additional specialization may prove desirable, especially when a student seeks employment, and it is recommended. Some of the fields which may be stressed are listed below. Others based on a student's particular interest may be developed.

ACCOUNTING

General accounting
Cost accounting
Public (C.P.A.) accounting

DISTRIBUTION

Marketing
Advertising
Retailing
Selling and sales management

ECONOMICS

Economic history
Economic theory
Business cycles

General

International
Labor relations
Public utilities

FINANCE

Banking
Business finance
Investments

MANAGEMENT

Personnel
Production

PREPARATION FOR LAW SCHOOL STATISTICS

Detailed information about the possibilities of developing a special interest may be obtained from the office of the Dean.

CURRICULUM IN COMMERCE

The university requirements pertaining to English composition, physical education, and speech are not indicated in the curriculum below. See UNIVERSITY COLLEGE.

Freshman Program

The freshman program will be determined largely by the requirements of the University College.

The University College Program should include:

First Semester	Hours	Second Semester	Hours
Math. 3—Intermediate Algebra (3) or		Math. 34—Mathematics of Finance	3
Math. 15—Freshman Mathematics (5) —3-5		Speech 3—Public Speaking	2
Ec. 11—Principles of Economics	3	Ec. 12—Principles of Economics	3
Acct. 75-76—Elementary Accounting, which is a curriculum requirement, is strongly recommended for the freshman year, especially for those students who plan to specialize in this field.			

Sophomore Program

Acct. 75—Elementary Accounting	3	Acct. 76—Elementary Accounting	3
Mkt. 155—Marketing Principles	3	Fin. 101—Financial Institutions*	3
Stat. 155—Business Statistics*	4	Advt. 155—Advertising Principles†	3
Eng. 293—Sophomore Composition	3	Eng.—Literature*	3
Electives	3	Electives	4
	16		16

Junior Program

Bus. L. 255—Business Law	3	Bus. L. 256—Business Law	3
Fin. 121—Corporation Finance*	3	Ec. (advanced)—Elective*	2-3
Mgt. 211—Industrial Management*	3	Electives	11
Sec. St. 220—Business Communications*	3		
Electives	4		16-17
	16		

Senior Program

Electives	16	Electives	16
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PREPARATION FOR LAW SCHOOL. A student in the College of Commerce who plans to enter law school should follow the Bachelor of Science in Commerce degree curriculum and also elect, with the approval of his adviser, courses in other fields, especially American government, American and English history, English, philosophy, speech, and other theory courses in the College of Arts and Sciences except those courses which substantially duplicate material contained in the typical law school curriculum.

*May be taken either semester.

†Mkt. 258 or 301 may be substituted.

The Ohio Supreme Court in its regulations governing the admission to the practice of law in Ohio provides that a student entering law school after January 1, 1960, must be able to show that he possesses an undergraduate degree from an approved college if he wishes to take the Ohio Bar Examination. Law schools in the state of Ohio have supplemented this Supreme Court rule by requiring the degree of *all* entering students after January 1, 1960, regardless of the state in which they plan to take the bar examination.

However, for the benefit of those students who do not plan to take the Ohio Bar Examination and who do not plan to seek admission to an Ohio law school, a degree-in-absentia program is available as described in the following statement.

A student who desires to enter a school of law located outside Ohio at the end of three years of college work and receive the Bachelor of Science in Commerce degree from Ohio University after completing his first year in law school may do so, provided the following conditions are met: the student has the written approval of the dean of the College of Commerce; the requirements of the University College are met; a minimum of 94 approved semester hours, including the required courses in the Bachelor of Science in Commerce degree curriculum with the exception of Business Law 255-256, are completed with a point-hour ratio of 2.0 on all hours attempted; and a full year's work in an accredited law school is completed with an average equivalent to that prescribed for the bachelor's degree at Ohio University, and the student is eligible for advancement without condition to the second year.

If there is any possibility that a student will desire to take the Ohio Bar Examination, he is urged to obtain his undergraduate degree before entering law school.

PERSONNEL MANAGEMENT IN INDUSTRY. The College of Commerce has designed a field of specialization which will prepare the student for personnel-management work either in industry or government service. Preparation in this field must be broadly based, and it is recommended that courses be selected on the advice and guidance of the faculty adviser from the offerings in the departments of Economics, Management, Secretarial Studies, Statistics, Government, Human Relations, Psychology, and Sociology.

OFFICE MANAGEMENT. Students interested in office management as an area of specialization should take the core curriculum for the Bachelor of Science in Commerce degree as well as Office Management, Office Procedures, Office Machines, and Typewriting. In consultation with the faculty adviser, other courses should be selected from the following areas: accounting, management, psychology, sociology, government, speech, and mathematics.

RESTAURANT MANAGEMENT. Students interested in restaurant management should take the core curriculum for the Bachelor of Science in Commerce degree plus courses in foods and nutrition selected with the advice and approval of the director of the School of Home Economics. In consultation with the faculty adviser, other courses should be selected from the following areas: accounting, government, management, psychology, and speech.

INDUSTRIAL TECHNOLOGY AND INDUSTRIAL OPTION IN MECHANICAL ENGINEERING. In recognition of the increasing need that executives in industry have a knowledge of and training in economics and business management, the College of Applied Science, in cooperation with the College of Commerce, offers two curricula, one leading to the degree of Bachelor of Science in Industrial Technology and the other leading to the degree of Bachelor of Science in Mechanical Engineering with an industrial option. These curricula are listed under the College of Applied Science.

BACHELOR OF SCIENCE IN SECRETARIAL STUDIES

The curriculum leading to the degree of Bachelor of Science in Secretarial Studies is designed to give the student: (1) high proficiency in the secretarial skills, (2) an understanding of the basic business areas, and (3) a well-rounded background in cultural subjects. Persons completing the work for the degree are trained to take responsible secretarial positions. Their technical skills and training also may be used as a stepping stone to other positions in business.

For those who enter without high school credit in typewriting and shorthand, the number of hours required in secretarial, commerce, and economics subjects is 68, and the minimum number of semester hours required in other fields is 53.

Students entering with high school credits in typewriting or shorthand should enroll in the advanced classes in these subjects. Whenever a student is unable to meet the prerequisite standard of achievement for the advanced courses in shorthand or typewriting, he may change to the beginning courses in these subjects. The hours of credit earned, however, will be added to the hours required for graduation.

Special care is taken to enable students to secure carefully supervised practice in the secretarial fields as a part of the curriculum. This practice includes the use of all representative office machinery and experience in using secretarial techniques under normal business office conditions.

During the student's final semester, he must take proficiency tests in shorthand, typewriting, and business procedures. These tests are similar in nature to those given in business for the selection of secretarial employees.

CURRICULUM IN SECRETARIAL STUDIES

The university requirements pertaining to English composition, physical education, and speech are not indicated in the curriculum below. See UNIVERSITY COLLEGE.

Freshman Program

The freshman program will be determined largely by the requirements of the University College.

The University College Program should include:

First Semester	Hours	Second Semester	Hours
Ec. 11—Principles of Economics -----	3	Ec. 12—Principles of Economics -----	3
Sec. St. 15—Beginning Typewriting ----	2	Sec. St. 16—Intermediate Typewriting--	2
Sec. St. 31—Beginning Shorthand -----	3	Sec. St. 32—Intermediate Shorthand ---	3

Those students who enter with high school credit in typewriting and shorthand should postpone the advanced courses in these subjects until the sophomore year.

Sophomore Program

Acct. 75—Elementary Accounting -----	3	Acct. 76—Elementary Accounting -----	3
Sec. St. 111—Advanced Typewriting ----	2	Advt. 155—Advertising Principles -----	3
Sec. St. 180—Office Machines -----	2	Sec. St. 173—Machine Transcription ---	1
Mkt. 155—Marketing Principles -----	3	Eng.—Elective -----	2
Psych. 1—General Psychology -----	3	Electives -----	6
Electives -----	3		
	16		16

Junior Program

First Semester	Hours	Second Semester	Hours
Sec. St. 151—Beginning Dictation and Transcription --	3	Sec. St. 152—Advanced Dictation and Transcription -----	3
Sec. St. 181—Office Procedures -----	2	Fin. 121—Corporation Finance -----	3
Fin. 101—Financial Institutions -----	3	Mgt. 211—Industrial Management (3) or -----	3
Eng.—Electives -----	3	Mgt. 312—Administration of Personnel--	3
Electives -----	5	Electives -----	7
	16		16

Senior Program

Bus. L. 255—Business Law -----	3	Bus. L. 256—Business Law -----	3
Sec. St. 220—Business Communications	3	Sec. St. 275—Secretarial Practice -----	3
Sec. St. 330—Office Management -----	3	Electives -----	10
Electives -----	7		
	16		16

PREPARATION OF SECRETARIES FOR SPECIALIZED FIELDS. Students may prepare themselves to do secretarial work in specialized offices; such as legal, medical, government, educational, merchandising, or advertising. These students follow the secretarial studies curriculum and, in addition, select courses from a prescribed group considered basic for training in the specialized field. Careful guidance in the selection of elective courses is given by the college adviser.

BUSINESS TEACHER TRAINING. Students training to teach business subjects in the high school should be as well prepared in the basic business and technical subjects as those trained to enter business offices. In order to prepare students for effective teaching of business subjects, the College of Education in cooperation with the College of Commerce offers comprehensive majors in the business fields. These majors, which include bookkeeping-social business and business education (comprehensive), are outlined in the College of Education section of the catalog.

Students preparing to teach are expected to meet the same standards as those entering business, and are required to take proficiency tests in shorthand, in typewriting, and in business procedures during their last semester in school. These students are also given an opportunity to apply their skills and knowledge through actual working experience.

BACHELOR OF SCIENCE IN JOURNALISM

The Ohio University School of Journalism is accredited by the American Council on Education for Journalism. It is one of a limited number of accredited schools and departments of journalism in the United States. As such, it is one of the members of the American Association of Schools and Departments of Journalism.

Journalism today is a profession—like medicine, law, teaching, or engineering. It requires its practitioners to be culturally educated and professionally trained. Blending the liberal arts with professional courses, Ohio University journalism students take approximately two-thirds of their courses outside the professional school.

Five sequences are offered, all leading to the degree of Bachelor of Science in Journalism: *Advertising-Management*, *Magazine Journalism*, *News Writing and Editing*, *Public Relations*, and *Radio-Television News*. Along with these sequences, several specialized study areas are possible—for example, scientific writing, religious journalism, or foreign correspondence. The master of science degree is also offered for work in journalism.

While working toward their degrees, students serve on the staff of the *Athens Messenger*, an independently-owned daily newspaper. The city editor, managing editor, and advertising manager are faculty members of the School of Journalism. The student staff members of the *Messenger* gather and write news, edit local and Associated Press copy, write headlines, and prepare advertising copy and layouts. This training prepares students to take and hold jobs immediately after graduation.

Practical experience is also available in the University News Bureau, in the Photography Department and in the journalism laboratories. Many students also add to their experience by helping edit the *Ohio University Post*, daily campus newspaper, the *Athena*, the University yearbook, and other campus publications.

In Radio-Television News, students get practical experience in preparing and broadcasting news over the University's AM and FM stations, WOUB and WOUI, and in the University's television studios. The United Press radio news teletype service is available for journalism students in this sequence.

INTERNSHIP PROGRAM. Consistent with its policy of combining classwork with practical training, the School of Journalism has inaugurated a Journalism Internship Program. Juniors or seniors who have ranked

high in their courses are eligible for appointment as interns. The period of internship is ten weeks or more during the summer. The intern is provided with as varied experience in practical journalism as possible. The intern will be paid a moderate sum for his work and study. No credit will be granted for internship work itself. However, upon completion of the internship period, a student is permitted to enroll the following semester in Journalism 370—Internship, 3 hours credit. The selection of the interns is made by the Director of the School of Journalism.

CURRICULA AND REQUIREMENTS IN JOURNALISM

Not more than 40 hours in the School of Journalism may be counted in the 124 hours required for graduation. Not more than 12 additional hours may be counted in any one of the following departments: Advertising, Photography, Radio.

Journalism students must take a group of courses specifically selected to serve as a background for journalism. These courses should include at least 20 hours of courses numbered 200 and above in other social sciences, humanities, or natural sciences. But students may, with the approval of the director, substitute up to 18 hours of courses in agriculture, commerce, home economics, education, engineering, or other fields to permit a background for specialized reporting in the chosen field.

Non-journalism courses required of all students include:

	Hours		Hours
English Composition	6	Speech	1-5
Literature (above freshman)	6	Foreign Languages or Humanities	3-8*
Economics	6	Mathematics	3-6*
Psychology	3	Natural Sciences	3-6*
Sociology	3	Physical Education	2
Government	3	Typewriting	2*
History	6		

Other non-journalism courses are required, but they are not the same for all sequences. See individual sequences for listing.

*Depending upon high school deficiency.

FRESHMAN PROGRAM

Freshmen should meet the requirements of the University and the University College in English Composition, Speech, Physical Education, and a year's work in each of two of the following groups: Humanities, Mathematics, Natural Sciences, and Social Sciences. In selecting the groups, the student must conform to the specific requirements based upon high school deficiencies, if he has any. He should plan his program for the freshman year to include the following courses:

Sec. St. 15—Typewriting (2), unless he can operate a typewriter by the touch system.

Hist. 1,2—Western Civilization in Modern Times (6)

Psych. 1—General Psychology (3)

All students except those expecting to enter the Advertising-Management sequence should take F. A. 17—Introduction to Fine Arts (3), or two semesters of a foreign language. Students preparing for Advertising-Management will find it advantageous to take Ec. 11-12—

Principles of Economics (6) in their freshman year and may, if necessary, have the requirement in History delayed to permit scheduling of the Economics course. Acct. 75-76—Elementary Accounting (6) also may be taken in the freshman year.

If a student chooses to fulfill his group requirements with science, he should take Biol. 1-2—The Living World (6), or Phys. Sci. 3,4—The Physical World (6).

ADVERTISING-MANAGEMENT

Sophomore Program		Hours
Acct. 75—Elementary Accounting	-----	3
Advt. 155—Advertising Principles	-----	3
Jour. 107—Newspaper Reporting	-----	3
Students interested in Management training will take in addition:		
Acct. 76—Elementary Accounting (3) and Jour. 105—History of American Journalism (3).		
Junior Program		Hours
Jour. 217—Newspaper and Magazine Editing	-----	3
Advertising students will take these courses:		
Advt. 286—Retail Advertising	-----	3
Jour. 309—Radio-TV Advertising and Management	-----	3
Management students will take these courses:		
Bus. L. 255—Business Law	-----	3
Jour. 251—Contemporary Thought and Developments	-----	3
Jour. 247—Newspaper Advertising and Layout	-----	3
Jour. 348—Advertising Production	-----	2
Mgt. 211—Industrial Management	-----	3
Senior Program		Hours
Jour. 277—Newspaper Advertising Practice	-----2 each semester	
Jour. 306—Newspaper and Communications Law	-----	2
Jour. 343—Newspaper Management	-----	2
Advertising students also will take Advt. 332—Copy Writing (2).		
Management students also will take Psych. 233—Industrial Psychology (3).		
Electives should include an advanced Economics course.		

MAGAZINE JOURNALISM

Sophomore Program		Hours
Ec. 11-12—Principles of Economics	-----	6
Eng. 101, 102—Sophomore English Literature or		
Eng. 111, 112—Chief American Writers	-----	6
Jour. 105—History of American Journalism	-----	3
Jour. 107—Newspaper Reporting	-----	3
Jour. 146—Typography, Mechanics, and Makeup	-----	3
Soc. 1—General Sociology	-----	3
Junior Program		Hours
Eng. 290—Creative Writing	-----	3
Jour. 111—Reporting Practice	-----	2
Jour. 217—Newspaper and Magazine Editing	-----	3
Jour. 230—Reviewing and Criticism	-----	2
Jour. 251—Contemporary Thought and Developments	-----	3
Jour. 329—Business and Magazine Journalism	-----	2
Photog. 133—Basic News Photography	-----	3
Senior Program		Hours
Jour. 221—Editing Practice	-----2 or	
Photog. 145—Workshop in Photography	-----	3
Jour. 306—Newspaper and Communications Law	-----	2
Jour. 322—Feature and Magazine Writing	-----	3
Jour. 323—Advanced Feature and Magazine Writing	-----	2

NEWS WRITING AND EDITING

Sophomore Program		Hours
Ec. 11-12—Principles of Economics	-----	6
Jour. 105—History of American Journalism	-----	3
Jour. 107—Newspaper Reporting	-----	3
Jour. 146—Typography, Mechanics, and Makeup	-----	3
Radio-TV 79—Introduction to Radio-TV	-----	2
Soc. 1—General Sociology	-----	3

Junior Program

Advt. 155—Advertising Principles -----	3	Jour. 251—Contemporary Thought and Developments -----	3
Jour. 111—Reporting Practice ----- (2 each semester)		Photog. 133—Basic News Photography --	3
Jour. 217—Newspaper and Magazine Editing -----	3		

Senior Program

Jour. 221—Editing Practice -----	2	Jour. 307—Reporting of Public Affairs -----	2
Jour. 306—Newspaper and Communications Law -----	2	Jour. 325—The Editorial Page -----	2
		Jour. 343—Newspaper Management ----	2

PUBLIC RELATIONS**Sophomore Program**

Hours		Hours	
Advt. 155—Advertising Principles -----	3	Jour. 107—Newspaper Reporting -----	3
Ec. 11-12—Principles of Economics -----	6	Jour. 146—Typography, Mechanics, and Makeup -----	3
Jour. 105—History of American Journalism -----	3	Soc. 1—General Sociology -----	3

Junior Program

Jour. 111—Reporting Practice -----	2	Photog. 133—Basic News Photography --	3
Jour. 217—Newspaper and Magazine Editing -----	3	Psych. 315—Social Psychology -----	3
Jour. 251—Contemporary Thought and Developments -----	3	Radio-TV 79—Introduction to Radio-TV -----	2
		Speech 3—Public Speaking -----	2

Senior Program

Advt. 332—Copy Writing -----	2	Jour. 329—Business and Magazine Journalism -----	2
H. R. 303—Human Relations -----	3	Jour. 348—Advertising Production ----	2
Jour. 306—Newspaper and Communications Law -----	2	Psych. 341—Psychology of Communication -----	3
Jour. 327—Public Relations Techniques	3	Soc. 336—Public Opinion and Mass Communications -----	3
Jour. 328—Public Relations -----	3		

The course in Human Relations and the advanced courses in Psychology and Sociology listed above are a partial fulfillment of the requirement that students must take at least 20 hours of courses numbered 200 and above in departments other than journalism, advertising, and radio.

RADIO-TELEVISION NEWS**Sophomore Program**

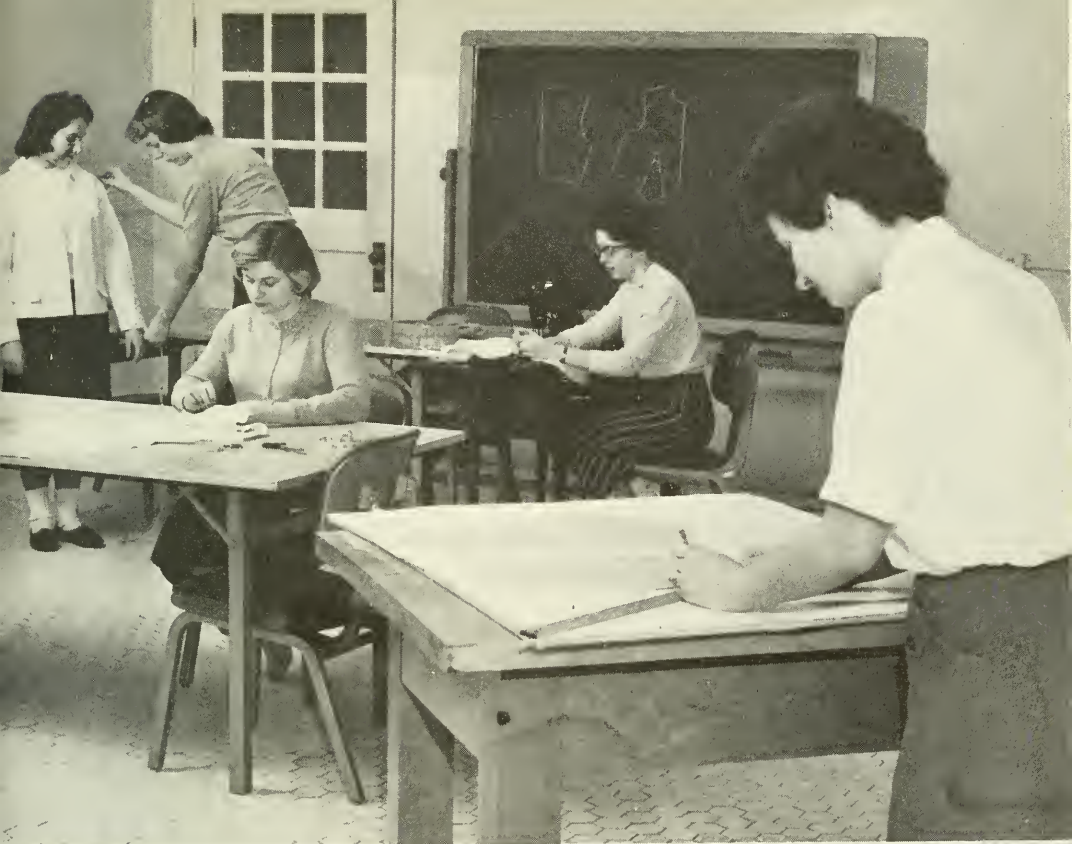
Hours		Hours	
Ec. 11-12—Principles of Economics -----	6	Radio-TV 79—Introduction to Radio-TV -----	2
Jour. 107—Newspaper Reporting -----	3	Radio-TV 180—Radio Speech -----	3
Photog. 133—Basic News Photography --	3	Speech 2—Voice and Articulation ----	2

Junior Program

Advt. 155—Advertising Principles -----	3	Jour. 280—Radio-TV News Writing and Editing -----	2
Jour. 111—Reporting Practice -----	2	Radio-TV 301—Principles of TV Production -----	3
Jour. 251—Contemporary Thought and Developments -----	3		

Senior Program

Jour. 285—Radio-TV News Practice -----	4	Jour. 306—Newspaper and Communications Law -----	2
Jour. 303—TV News Production -----	3	Jour. 309—Radio-TV Advertising and Management -----	3





THE COLLEGE OF EDUCATION

F. N. HAMBLIN

DEAN

GILFORD W. CROWELL

ASSISTANT DEAN

Elementary Education

Secondary Education

Guidance and Counseling

Teaching Special Subjects

School Administration and Supervision

Library Science

General Education

Research and Scientific Techniques

History and Philosophy of Education

Student Teaching

Center for Educational Service

Teaching Certificates

THE COLLEGE OF EDUCATION

The College of Education is devoted to the education of men and women who intend to enter the fields of teaching and educational administration. A wide range of programs prepares students for teaching in elementary schools, high schools, and colleges; for positions as supervisors, school principals, or superintendents; and for such specialized educational work as that of the guidance counselor or school psychologist.

All these programs include a broad base of general education, intensive preparation in the subjects to be taught, and professional emphasis and focus which combine educational theory with actual practice in meeting the responsibilities of the profession. Each program is thus designed to prepare students to enter the profession possessing the liberal background, the functional knowledge, and the professional understanding and skill which are requirements for professional success.

The College of Education is accredited by the National Council for Accreditation of Teacher Education, and is approved for teacher training by the State of Ohio Department of Education.

BACHELOR OF SCIENCE IN EDUCATION

The degree, Bachelor of Science in Education, represents the completion of a program designed to develop in the student competence in three areas: in the broad awareness of the principal academic fields developed through a true university education; in the deeper study of the particular studies in which the student seeks the undergraduate mastery necessary for teaching these subjects; and in the understanding of the professional responsibilities of teaching, and demonstrated skill in meeting them.

The degree is granted upon completion of the general graduation requirements of the University, including a minimum of 124 semester hours with a point-hour ratio of 2.0 (C) on all hours attempted, but including only the final hours and points in repeated courses, and in addition this same point-hour ratio on one of the approved programs in the College of Education. For a student with transferred credit, this rule applies to both his cumulative record, which includes transferred credits, and to his Ohio University record exclusive of transferred credits. These programs are of three main types:

Elementary Education. This program prepares for teaching in kindergarten, primary, or intermediate grades, with specialization in one of these groups.

Secondary Education. This program prepares for teaching any of the academic fields in high school. Students planning to teach at the secondary school level will ordinarily be prepared in one or more minor teaching subjects, in addition to their major field. Such minors should be

carefully selected in consultation with an adviser, in view of the student's interests and abilities. (Outlines of majors are included in this section.)

Teaching Special Subjects. Such special subjects as art, home economics, industrial arts, music, physical education, speech, and speech and hearing therapy are ordinarily not limited to any grade level. Students who major in these subjects will be prepared to teach their specialty in both elementary and high school.

ELEMENTARY EDUCATION

The following program includes all requirements, except those established by deficiencies in the high school pattern, for students who plan to specialize in elementary education.

	Hours		Hours
Psych. 1—General Psychology	3	Govt. 106—Current Political and Social Problems	2
Psych. 5—Educational Psychology	3	Social Science Elective	3-4
Eng. 3-4—English Composition	6	Ed. 192—Literature for Children	3
Eng. 111 or 112—Chief American Writers	3	Ed. 103—Studies of Children	3
Speech 1—Fundamentals of Speech	1	Ed. 163—Teaching of Reading and Language	3
Physical Education	2	Ed. 165—Teaching Arithmetic in the Elementary School	3
P.E. 102—Personal and Community Health	3	Ed. 169—Teaching of Social Studies and Science in the Elementary School	3
P.E. 270—Teaching of Physical Education	1	Ed. 211—The Child and the Curriculum	3
Mus. 72—Music Fundamentals	2	Ed. 272—Student Teaching in the Elementary Grades	7
Mus. 262—Music for the Classroom Teacher	2	Ed. 277—Field Experience	2
Art 3—Elementary Design for Teachers	2	Ed. 288—Student Teaching Seminar	3
Art 160—Practical Design Workshop for Elementary Teachers	3	Elective in Education	2
Select from the following:	9	Ed. 100—The Development of Kindergarten Education	2
Biol. 1-2—The Living World		Ed. 101—Materials and Methods in Kindergarten Primary Education	2
Phys. Sci. 3,4—The Physical World		(Required of Kindergarten-Primary majors) Electives to total 124 sem. hrs. for graduation.	
Hist. 1, 2—Western Civilization in Modern Times or			
Soc. Sc. 9, 10, 209, 210	6		
Hist. 102—History of the United States	3		
Geog. 150—Geography and Environment	3		

Kindergarten-Primary Education. A student majoring in Elementary Education may receive the kindergarten-primary certificate by completing the general pattern of the elementary curriculum as shown above. Student teaching must be done on the kindergarten-primary level and specialized courses in theory, materials, and methods of kindergarten-primary education must be taken as indicated by the adviser.

SPECIAL CADET PROGRAM

To assist in meeting the critical shortage of elementary teachers, Ohio University will tentatively continue to offer a special two-year program. *The four-year provisional "cadet" certificate is granted upon the satisfactory completion of this accelerated course.* Only those high school graduates who are superior both in academic aptitude and in social maturity, are encouraged to enter this program, which should be pursued in four successive regular semesters. The provisional cadet certificate may be renewed only upon completion of 24 semester hours of *additional* credit applicable to the degree in elementary education.

The program for the Cadet Provisional Certificate is as follows:

Freshman Program

First Semester	Hours	Second Semester	Hours
Eng. 3—English Composition	3	Eng. 4—English Composition	3
Hist. 1 or 2—Western Civilization in Modern Times	3	Ed. 102—Literature for Children	3
Biol. 1—The Living World	3	Biol. 2—The Living World	3
Psych. 1—General Psychology	3	Mus. 72—Music Fundamentals	2
Speech 1—Fundamentals of Speech	1	Hist. 101 or 102—History of the United States	3
Art 3—Elementary Design for Teachers	2	P. E. 102—Personal and Community Health	3
P. E.—Physical education	1		

Sophomore Program

Ed. 103—Studies of Children	3	Ed. 169—Teaching of Social Studies and Science in the Elementary School	3
Ed. 163—Teaching of Reading and Language	3	Ed. 272—Student Teaching in the Ele- mentary Grades	7
Ed. 165—Teaching Arithmetic in the Elementary School	3	Ed. 288—Student Teaching Seminar	3
Mus. 262—Music for the Classroom Teacher	2	Electives	2
Geog. 150—Geography and Environment	3		

SECONDARY EDUCATION

The following are the *general requirements* for all students in the College of Education who plan to specialize in the teaching of the *academic subjects* in the secondary schools.

	Hours
1. Psychology	6
Psych. 1—General Psychology	3
Psych. 5—Educational Psychology	3
2. Education	16-17
Ed. 130—Secondary Education	3
Ed. 229—Curriculum and Teaching Practices	4
Ed. 281—Student Teaching in the Secondary Schools	7
Methods in Major or Minor	2-3
3. English	12
Eng. 3-4—English Composition	6
Eng. 101 or 102—Sophomore English Literature and Eng. 111 or 112—The Chief American Writers	6
4. Humanities (Fine or Applied Arts or Philosophy)	6
5. Mathematics (as required by University College)	
6. Air or Military Science (if elected)	
7. Physical Education (as required for graduation)	2
8. Natural Science	6-8
(One year in one field: biology, botany, zoology: chemistry, physics, geology.)	
9. Social Studies	12
History 101 or 102—History of the United States	3
Economics, sociology, geography, government, or Social Science 9 or 10, or 209 or 210	3
Social science electives	6
10. Speech 1 — Fundamentals of Speech	1
11. Elective approved by adviser	2-3

Specialization requirements for a major in academic high school subjects.

Agriculture

Select 27 semester hours in agriculture:

	Hours		Hours
Agr. 1, 2—Introduction to Agriculture	6	Agr. 216—Crops and Soils	4
Agr. 30—Forestry	3	Agr. 217—Soil Conservation	3
Agr. 102—Gardening	3	Agr. 235—Farm Management	3
Agr. 104—Fruit Production	3	Geol. 106—Agricultural	3
Agr. 121—Livestock Management	4	Ind. A. 51—Farm Shop	3
Agr. 201-202—Agricultural Practices	6		

American Studies

Students majoring in English, History and Government, or Social Studies—Comprehensive, may also complete a program in American Studies. This concentration is interdisciplinary, designed to integrate work in American Literature, social sciences, and philosophy. Education students will meet the state requirements for a teaching major in English, History and Government, or Social Studies—Comprehensive. In addition they will take the following courses:

Government 1	English 111, 112
Sociology 1	Geography 202
Economics 11	Philosophy 212
History 101, 102	Seminar in American Studies 297-298

Biological Science

Bot. 3-4—General Botany	6	Bot. 203—Plant Ecology	(4)
Any three of the following courses or groups of courses:	9-10	Bot. 212—Plant Microtechnique	(3)
Bot. 105—Elementary Plant Physiology (3)		Zool. 3-4—Principles of Zoology	6
Bot. 106—Local Flora (3) or		Any three of the following courses:	9-10
Bot. 117—Dendrology (3)		Zool. 107—Principles of Heredity	(3)
Bot. 123—Introduction to the Fungi (3)		Zool. 113—Biology of Vertebrates	(4)
Bot. 173—Fundamental Plant Morphology (3) or		Zool. 118—Ornithology	(3)
Bot. 211—Plant Anatomy (3)		Zool. 121—Elements of Anatomy	(3)
		Zool. 216—Animal Communities	(4)
		Zool. 219—General Entomology	(4)
		Zool. 235—Elements of Physiology	(4)

Commerce—Bookkeeping-Basic Business

Acct. 75-76—Elementary Accounting	6	Mkt. 155—Marketing Principles	3
Acct. 125—Intermediate Accounting	3	Mkt. 271—Principles of Personal Selling	2
Bus. L. 255-256—Business Law	6	Fin. 101—Financial Institutions	3
Ec. 11-12 or 101-102—Principles of Economics	6	Sec. St. 261—Teaching of Business Subjects	3
Geog. 115—Economic Geography	3	Sec. St. 15, 16—Typewriting	4
Sec. St. 180—Office Machines	2	Electives in commerce	2
Mgt. 3—Introduction to Business	3		

Commerce—Business Education (Comprehensive)

Acct. 75-76—Elementary Accounting	6	Sec. St. 152—Advanced Dictation and Transcription	3
Advt. 155—Principles of Advertising	3	Sec. St. 173—Machine Transcription	1
Bus. L. 255—Business Law	3	Sec. St. 180—Office Machines	2
Mgt. 3—Introduction to Business	3	Sec. St. 181—Office Procedures	2
Ec. 11-12—Principles of Economics	6	Sec. St. 220—Business Communications	3
Mkt. 155—Principles of Marketing	3	Sec. St. 275—Secretarial Practice	3
Sec. St. 15—Beginning Typewriting	2	Sec. St. 261—Teaching of Business Subjects	3
Sec. St. 16—Intermediate Typewriting	2	Sec. St. 330—Office Management	3
Sec. St. 31—Beginning Shorthand	3		
Sec. St. 32—Intermediate Shorthand	3		
Sec. St. 111—Advanced Typewriting	2		
Sec. St. 151—Beginning Dictation and Transcription	3		

Earth Science

Geog. 3,4—Elements of Phys. Geog. ; World Regional Geog. (6) or		Geog. 232—Conservation of Natural Resources	3
Geog. 150—Geography and Environment (3)	3-6	Geol. 3-4—Elements of Geology	6
Geog. 175—Fundamentals of Meteor- ology	3	Geol. 111-112—Historical Geology	4
Geog. 202—Geography of the United States and Canada	3	Geol. 223—Principles of Geomorphology	3
		Electives in geography or geology to make 34 sem. hrs.	

English

Eng. 3,4—English Composition	6	Eng. 264—Teaching of High School English	3
Eng. 101 or 102—Sophomore English Literature and Writers	6	Eng. 293—Advanced Composition	3
Eng. 111 or 112—The Chief American Writers	6	Eng. 396—Senior Survey	1
Eng.—Approved electives (preferably on 300 level)	16	Additional electives suggested from the fields of library science, dramatic arts, speech correction, or journalism.	
Elective in library science	2-3		

History and Government

Govt. 1, 2—American Government	6	Hist. 101, 102—History of the United States	6
Hist. 1, 2—Western Civilization in Modern Times	6	Hist. 115—Ancient or 120—Medieval	3
Hist. 263—Teaching of Social Studies in Junior and Senior High Schools	2	Approved electives: One history course above 300 level	3
		Government or history	4

Latin

Lat. 101—Latin Review and Reading	4	Lat. 331—The Life of the Romans	2
Lat. 102—Vergil	4	Lat. 333—Advanced Latin Syntax	2
Lat. 151—Familiar Essays	3	Lat. and Gk.—Approved electives	16
Lat. 152—Horace and Terence	3		

Library Science

Minor for certification for teacher-librarians includes 16 hours from the following:

Ed. 102—Lit. for Children	3	Lib. Sc. 202—Books for High School Readers	3
Lib. Sc. 191—The Use of Library Resources	3	Lib. Sc. 291—The School Library	3
Lib. Sc. 192—Classification and Cataloging of Books	3	Lib. Sc. 393—Administrative Problems in a School Library	2
Lib. Sc. 194—History of Books and Printing	3		

Mathematics

Math. 9—Fundamentals of Mathematics	3	Math. 307—Origins and Development of Elementary Mathematics	3
Math. 14—Trigonometry	3	Math. 268—Teaching of Mathematics in High School	2
Math. 16—Analytic Geometry and Calculus	5	Ed. 381—Educational Statistics	3
Math. 101—Analytic Geometry and Calculus	4	Select from the following:	3
Math. 102—Analytic Geometry and Calculus	4	Astron. 11 or 12—Elementary Astronomy	3
Math. 104—College Geometry	3	Math. 34—Mathematics of Finance	3
Ed. 263—Teaching Arithmetic in the Upper Grades	3	Math. 207—Introduction to Mathematical Statistics	3
Math. 301—Arithmetical and Algebraic Systems	3		

Students with exceptionally strong high school preparation may, with the consent of the adviser, omit Math. 9 and Math. 14.

Modern Languages

Students wishing to major in one of the Modern Languages—French, German, Russian, or Spanish—should take one year of Introductory, one year of Intermediate, and 14 hours of approved electives in the major language.

Physical Science

Chem. 3,4—General Chemistry	6	Math. 15-16—Freshman Mathematics: Analytic Geometry and Calculus I	10
Chem. 99—Qualitative Analysis	2	Phys. 5, 6—Introduction to Physics or Phys. 113-114—General Physics	8
Chem. 107—Quantitative Analysis or Chem. 113—Organic Chemistry	4	Phys. 115—General Physics (Modern)	3

Psychology

The student who wishes to take the courses required of majors in Psychology, in preparation for training in school psychology or for graduate training in psychology, should consult an adviser in the Department of Psychology.

Science—Comprehensive Major	
Chemistry, Physics, Botany-Zoology, as approved by major adviser, with 20 semester hours in one of these sciences, and 8 semester hours in each of the other two fields -----	36
Astronomy, geology, meteorology, or mathematics, or excess course work in above -----	9
Social Studies—Comprehensive Major	
Soc. Sc. 9—Citizenship in the Modern World or	
Soc. 1—General Sociology -----	3
Hist. 1, 2—Western Civilization in Modern Times -----	6
Mgt. 3—Introduction to Business or	
Ec. 11 or 101—Principles of Economics 3	
Hist. 101, 102—History of the United States -----	6
Govt. 1—American Government -----	3
Geog. 150—Geography and Environment -----	3
Electives in history -----	9
Additional electives in above fields -----	12

In addition to the majors described above, a student in the College of Education may arrange another major when such arrangements meet his needs. The student will be expected to meet the *professional* requirements for certification, and qualify for certification in one or two teaching areas as described by the State Department of Education.

TEACHING SPECIAL SUBJECTS

The following are the *general requirements* for students in the College of Education who plan to specialize in the teaching of the *special subjects*. Special programs for Elementary School music majors and Speech and Hearing Therapy students will be found under these headings on subsequent pages.

	Hours
1. Psychology -----	6
Psych. 1—General Psychology -----	3
Psych. 5—Educational Psychology -----	3
2. Education -----	14
Ed. 130—Secondary Education -----	3
Ed. 229—Curriculum and Teaching Practices -----	4
Ed. 272, 281—Student Teaching -----	7
Special Methods in major in addition to the 14 hours	
3. English -----	9
English 3-4—English Composition -----	6
English 101, 102, 111, or 112 -----	3
4. Humanities (Fine or Applied Arts or Philosophy — unless the requirement is met by the major) -----	6
5. Mathematics (as required by University College)	
6. Air or Military Science (if elected)	
7. Physical Education (as required for graduation) -----	2
8. Natural Science -----	6-8
(One year in one field: Biology, Botany, Zoology; Chemistry, Physics, Geology)	
9. Social Studies -----	9
History 101 or 102—History of the United States -----	3
Economics, sociology, geography, government, or	
Social Science 9, 10, 209, or 210 -----	3
Social Science Elective -----	3
10. Speech 1 — Fundamentals of Speech -----	1
11. Elective approved by adviser -----	2-3

Specialization requirements for a major in special subjects:

Art	
Hours	Hours
Art 1-2—Drawing and Design ----- 6	Art 137—Fashion Design ----- 2
Art 101-102—Drawing and Design ---- 6	Art 205—Painting ----- 2
Art 21—Elementary Sculpture ----- 2	Art 240—Design Applied to Materials ----- 2
Art 28—Figure Drawing ----- 2	Art 260—Teaching of Art ----- 3
Art 103—Representation ----- 3	Art 271—Interior Design ----- 3
Art 111—Drawing Workshop ----- 2	Art 309—Prints ----- 3
Art 112—Lettering ----- 3	Photog. 77—Basic Photography ----- 2
Art 115—Ceramics ----- 3	Either of the following:
Art 118—Watercolor ----- 3	Arch. 257—Fundamentals of Residential Architecture ----- 2
Art 120—Textile Design ----- 3	Arch. 375—Architecture in the United States ----- 2
F. A. 121-122—History of Painting and Sculpture ----- 6	
Art 123—Jewelry ----- 2	
Art 123—Advanced Figure Drawing --- 3	

Home Economics	
H. Ec. 1-2—Foods, Nutrition, and Meal Planning ----- 6	H. Ec. 268—Teaching of Home Economics ----- 3
H. Ec. 3-4—Clothing Selection and Construction ----- 4	H. Ec. 316—Tailoring ----- 3
H. Ec. 5-6—Child Development and Family Living ----- 6	H. Ec. 327—Quantity Cookery ----- 3
H. Ec. 7—The Home and Its Furnishings ----- 2	H. Ec. 330—Workshop in Home Furnishings ----- 3
H. Ec. 51—Orientation in Home Economics ----- 2	H. Ec. 334—Household Equipment ----- 3
H. Ec. 108—Consumer Problems of the Family ----- 2	H. Ec. 351—Home Management ----- 2
H. Ec. 161—Home Nursing and Family Health ----- 2	H. Ec. 353—Home Management Laboratory ----- 3
H. Ec. 110—Textiles ----- 2	H. Ec. 368—Demonstration Tech- niques ----- 2
H. Ec. 125—Family Nutrition ----- 3	Chem. 1-2—General Chemistry (8) or ----- 2
H. Ec. 172—Advanced Child Development ----- 2	Biol. 1-2—The Living World (6) or Zool. 3, 4—Principles of Zoology (6) ---6-8
	Art 1, 2—Drawing and Design (6) or Art 91—Design and Composition (3) ---3-6
	Zool. 241—Elementary Bacteriology --- 4

Industrial Arts	
Ind. A. 1, 2—General Woodworking --- 6	Ind. A. 134—Practical Power and Transportation ----- 3
Ind. A. 9—Craft and Hobby Work ----- 2	Ind. A. 141,142—Graphic Arts ----- 6
Ind. A. 13—General Cold Metals ----- 3	Ind. A. 260—Teaching of Industrial Arts ----- 3
Ind. A. 14—General Hot Metals ----- 3	Ind. A. 309—Administration of the General Shop ----- 3
Ind. A. 105—Materials and Finishes ----- 3	Electives in Industrial Arts ----- 6
Ind. A. 116—Constructive Design ----- 2	E. G. 1—Engineering Drawing ----- 2
Ind. A. 131—Ceramics ----- 2	E. G. 15—Industrial Arts Drawing ----- 3
Ind. A. 133—Practical Electricity ----- 3	

By taking the core courses listed and appropriate electives, a specialization in drawing, graphic arts, metalworking, or woodworking may be developed.

Music—General Supervision	
Applied Music—16 hours:	Mus. 233—Instrumentation ----- 3
Voice (must include Voice 14) ----- 4	Mus. 261—String Techniques and Materials ----- 2
Piano (must include Piano 6) ----- 4	Mus. 263—Wind and Percussion Techniques and Materials ----- 4
Additional study in selected fields of applied music ----- 8	(2 semesters, 2 hours each)
Mus.—Chorus ----- 4	Mus. 265—Vocal Techniques and Materials ----- 2
Mus.—Participation elective (Chorus, Band, Orchestra) ----- 4	Mus. 266—Teaching of Music in the Elementary Grades ----- 3
Mus. 3-4—Theory ----- 6	Mus. 267—Supervision and Adminis- tration of Music in the Public Schools ----- 3
Mus. 103-104—Dictation and Sight Singing ----- 4	Mus. 273—Conducting ----- 2
Mus. 105-106—Harmony ----- 6	
F. A. 123-124—History of Music ----- 6	
Mus. 201—Analysis and Form ----- 2	

Music—Instrumental Supervision

Applied Music—17 hours:		F. A. 123-124—History of Music.....	6
Principal Emphasis	8	Mus. 201—Analysis and Form	2
(Completion of Classif. 18)		Mus. 233—Instrumentation	3
Secondary Emphasis	3	Mus. 261—String Techniques	
(If Principal Emphasis is wind,		and Materials	2
3 hrs. must be in strings; if		Mus. 263—Wind and Percussion	
Principal Emphasis is strings,		Techniques and Materials	6
3 hrs. must be in winds.)		(3 semesters, 2 hrs. per sem.)	
Piano (must include Classif. 4)....	4	Mus. 265—Vocal Techniques	
Voice	2	and Materials	2
Mus.—Band and/or Orchestra	8	Mus. 266—Teaching of Music in	
Mus.—Chorus	1	Elementary Grades	3
Mus. 3-4—Theory	6	Mus. 267—Supervision and Administra-	
Mus. 103-104—Dictation and		tion of Music in the Public	
Sight Singing	4	Schools	3
Mus. 105-106—Harmony	6	Mus. 273—Conducting	2

General Music Supervision
(Emphasis on Elementary School Music)

General Requirements		Requirements in Major	
	Hours		Hours
Psychology:		Applied Music—16 hours	
1—General	3	Voice (must include Voice 14)....	4
5—Educational	3	Piano (must include Piano 6)....	4
Education:		Additional study in selected fields	
125—Purposes and Practices of		of applied music	8
Education	3	Chorus	4
211—Child and Curriculum, or 103—		Participation Elective (chorus, band,	
Studies of Children	3	orchestra)	4
229—Curriculum and Teaching		Musical:	
Practices	4	3-4—Theory	6
Observation and Student Teaching:		103-104—Dictation and Sight Sing....	4
Ed. 272, 4 hrs., Ed. 281, 3 hrs..	7	105-106—Harmony	6
Art:		F. A. 123-124—History of Music.....	6
Electives	6	201—Analysis and Form	2
English:		233—Instrumentation	3
3-4—Composition	6	261—String Techniques and Mat.	2
101, 102, 111, or 112	3	263—Wind and Percussion	
Humanities:		Techniques and Materials	2
(As required by University College)		265—Vocal Techniques and Mat.	2
Speech 1—Fundamentals	1	266—Teaching Music in Elementary	
Physical Education	2	Grades (2 semesters, 3 hrs. per	
Math. (As required by University College)		semester)	6
Natural Science:		267—Music Supervision and	
(One year in one field)	6	Administration	3
Social Studies:		268—General Music for Adolescents	
History 101 or 102	3	and Adults	3
Economics, Geography, Government,		269—Social and Recreational Instr....	2
Sociology, Social Science, 9, 10,		273—Conducting	2
209, or 210	6		

Physical Education—Men

P. E. 65—Program Skills	2	P. E. 268—Athletic Coaching	2-4
P. E. 66—Program Skills	2	P. E. 269—Teaching of Health	3
P. E. 102—Personal and Community		P. E. 304—History and Principles	3
Health	3	P. E. 306—Organization and	
Ed. 103—Studies of Children	3	Administration	2
P. E. 121—Program Skills	2	P. E. 395—School Health Problems, or	
P. E. 122—Program Skills	2	Psych 110—Adjustment, or	
P. E. 127—First Aid	2	Psych. 310—Behavior Pathology, or	
P. E. 135—Program Techniques	1	P. E. 352—Physical	
P. E. 150—Recreation	3	Diagnosis	3
P. E. 233—Theory of Adapted		Zool. 3—Principles of Zoology	3
Activities	2	Zool. 133-134—Anatomy, Kinesiology,	
P. E. 267—Athletic Coaching	2-4	and Physiology	8

Physical Education—Women

P. E. 1—Hockey and Soccer	1	H. Ec. 161—Home Nursing and Family	
P. E. 4—Intermediate Swimming	1	Health (2) or	
P. E. 7—Beginning Modern Dance	1	P. E. 395—School Health Problems (3)	
P. E. 8—Intermediate Modern Dance ..	1	or	
P. E. 17—Beginning Tennis	1	Psych. 310—Behavior Pathology (3) ..	2-3
P. E. 102—Personal and Community		Zool. 3—Principles of Zoology	3
Health	3	Zool. 133-134—Anatomy, Kinesiology	
P. E. 121, 122—Program Skills	4	and Physiology	8
P. E. 127—First Aid	2	Ed. 103—Studies of Children	3
P. E. 131—Mass Games	1	P. E. 272—Teaching Methods I	2
P. E. 150—Recreation	3	P. E. 273—Teaching Methods II	2
P. E. 233—Theory of Adapted Activities		P. E. 269—Teaching of Health	3
P. E. 304—History and Principles	3	P. E. 274, 275—Teaching of	
P. E. 306—Organization and		Rhythmic Activities	2
Administration	2		

Speech

Speech 2—Voice and Articulation	2	Radio-TV 79—Introduction to Radio-TV	2
Speech 3—Public Speaking	2	Dram. A. 21—Elements of Stage Scenery	3
Speech 25—Principles of Argumentation	2	Dram. A. 48—Make-Up	1
Speech 34—Oral Interpretation of Literature	3	Dram. A. 99—Movement and Pan-tomime	2
Speech 104—Bases of Speech	3	Dram. A. 207—Costuming or	
Speech 112—Advanced Public Speaking	2	Dram. A. 123—Elements of Stage Lighting	4-3
Speech 195—Principles of Speech Correction	3	Dram. A. 299—Principles of Acting	3
Speech 205—Dynamics of Group Discussion or		Dram. A. 350—Play Direction	3
Speech 305—Problem Solving through Group Discussion	3	Dram. A. 266—Teaching of High School Dramatics and Speech	3
Speech 307—Clinical Methods	3		
Speech 325—Direction of Forensic Programs	3		

Speech and Hearing Therapy

The following program includes all the requirements, except those established by deficiencies in the high school pattern, for students preparing to be speech and hearing therapists in the public schools. This program meets the requirements of the State of Ohio for the special certificate in this field.

General, Education, and Psychology Requirements:

	Hours
Eng. 3-4—English Composition	6
Eng. 101, 102, 111, or 112	3
Social Studies (history, government, sociology, economics, geography, Social Science 9, 10 or 209, 210)	9
Natural Science or Mathematics (biology, botany, zoology, physics, chemistry, or mathematics)	6-10
Speech 1—Fundamentals	1
Physical Education	2
Ed. 103—Studies of Children or Psych. 103—Child Psychology	3
Ed. 125—Purposes and Practices of Education	3
Ed. 229—Curriculum and Teaching Practices	4
Speech 262—Speech and Hearing Therapy in Public Schools	2
Ed. 272—Student Teaching	5
Psych. 1 or 101—General Psychology	3
Psych. 5—Educational Psychology	3
Psych. 113—Psychology of Adolescence	2
Psych. 204—Psychology of Exceptional Children	2
Psych. 310—Behavior Pathology	3

Speech Requirements:

	Hours
Dram. A. 10—Introduction to Theatre	2
Radio-TV 79—Introduction to Radio-TV	2
Speech 2—Voice and Articulation	2
Speech 3—Public Speaking	2
Speech 25—Prin. of Argumentation	2
Speech 34—Oral Interpretation of Literature	3
Speech 104—Bases of Speech	3
Speech 195—Principles of Speech Correction	3
Speech 247—Clinical Practice in Speech Correction	1
Speech 307—Clinical Methods	3
Speech 310—Speech Pathology	3
Speech 312—Phonetics	3
Speech 319—Audiometry and Speech and Hearing Problems	3
Speech 320—Advanced Clinical Methods	3
Speech 323—Lip Reading	3
Speech 335—Diagnostic Procedures in Speech and Hearing Therapy	3
Speech 345—Stuttering and Psychogenic Disorders of Speech	3

PREPARATION FOR PUPIL PERSONNEL SERVICE

Pupil Personnel Service involves the work of the School Counselor, the School Psychologist, and the Visiting Teacher. In the State of Ohio, and many other states, professional workers in these fields must earn a state certificate. This requires teaching experience and graduate work beyond the bachelor's degree, including a master's degree for the counselor and the school psychologist.

SCHOOL COUNSELOR. The certified counselor must hold a master's degree in guidance and have three years of experience, one of which must be in teaching. Undergraduates interested in this field will prepare

to be teachers and should also take the following courses (starred courses are required):

- *Ed. 360—Guidance Principles (3)
- *Ed. 361—Guidance Practice (3)
- *Ed. 362—Information Service in Guidance (2)
- *363—Individual Analysis in Guidance (3)
- At least two courses from the following:
 - Ed. 103—Studies of Children (3)
 - Ed. 385—Educational Measurements (3)
 - Ed. 381—Educational Statistics (3)
 - Psych. 113—Psychology of Adolescence (2)
 - Psych. 204—Psychology of Exceptional Children (2)
 - Psych. 233—Industrial Psychology (3)
 - Psych. 310—Behavior Pathology (3)

Graduate students who desire preparation in this field will find programs described in the Graduate College Bulletin under Education. Detailed programs in guidance, leading to the M.Ed. or Ph.D. degree, may be secured from the office of the College of Education or the Graduate College.

SCHOOL PSYCHOLOGIST. The certified school psychologist must have one year of teaching experience and must hold a master's degree which includes at least twenty hours of work distributed as follows: Clinical work and individual testing (9-12 hours), group testing of intelligence and school achievement (2-4 hours), child development (4-5 hours), psychology of learning (3-5 hours), and counseling with laboratory practice (2-5 hours). Undergraduates interested in this field should prepare to teach; and should consult an adviser in the Psychology Department.

VISITING TEACHER. The certified visiting teacher must have at least one year of teaching experience and must have earned at least 20 hours of graduate credit in child development, measurements, community organization, pupil personnel work, guidance, school administration, and orientation to social case work. Undergraduates interested in this field should prepare to teach; and should consult the adviser in Social Work.

STUDENT TEACHING

Successful student teaching represents the culmination of the program of professional preparation; it is a requirement for the degree, Bachelor of Science in Education. No candidate will be considered for the degree, or for recommendation for a teaching certificate, who has not completed, under the supervision of Ohio University, at least six hours of observation, participation, and student teaching, of which at least three hours are in student teaching. The degree of Bachelor of Science in Education will be granted only to candidates who have given, within five years immediately preceding, satisfactory evidence of a high degree of teaching skill, and a knowledge of modern methods and ability to employ them in the classroom.

APPLICATION: It is the responsibility of the student to enter an application for student teaching in the office of the Director of Student Teaching, not later than the middle of the academic year preceding the year in which he desires a student teaching assignment.

FACILITIES: Due to limited facilities available for student teaching in the city of Athens and a commuting radius of thirty miles, it is necessary for a large number of student teachers to be assigned to off-campus locations. Student teachers are assigned to the public school system of the cities where there are Ohio University Branches and in the city of Cleveland. Students who are assigned in the local area are assigned to the University Elementary School, the Athens city elementary and high schools, and to the school systems of The Plains, Mechanicsburg, Nelsonville, and Logan.

SCHEDULE: Students assigned to off-campus centers have the opportunity to experience the complete range of a teacher's activities in their full-time student teaching assignments. It is necessary for all students who pursue curricula leading to teacher certification to plan carefully during their first three years of college so that they may spend one complete semester off campus for student teaching. Student teachers in elementary education may engage in student teaching in either the second semester of the junior year or the first semester of the senior year. Student teachers in secondary education and in the special fields normally take student teaching in the senior year. The limited number of student teaching applicants who can be assigned in the local area is restricted to half-day assignments. These students must have either a morning or an afternoon free in their schedule for student teaching.

PREREQUISITES FOR STUDENT TEACHING:

A. General Prerequisites

1. **Residence:** at least one semester of residence work must be completed prior to admission to student teaching.
2. **Scholastic Average:** the student must have a point-hour ratio of 2.0 (C) on all hours attempted, and specifically a 2.0 on all hours taken at Ohio University.
3. **English Proficiency:** the student must have demonstrated proficiency in English usage. This requirement may be satisfied by earning "A" or "B" in English 4, or by passing the English proficiency test. (All transfer students must pass the English proficiency test regardless of the English grade transferred from another institution.)
4. **Speech Proficiency:** the student must have successfully passed a speech proficiency test given by the Speech Department. A card certifying that this test has been passed must be on file in the Office of the Director of Student Teaching.

5. Field Experience: All students in elementary education curricula must present evidence of an experience of ten consecutive school days duration in an elementary school during the opening days of the public school in the fall. Students in secondary academic and special subjects should present evidence of an adequate background of Field Experience. This shall include either of both of the following types: (a.) An experience of ten consecutive school days duration in a secondary school during the opening days of school in the fall; (b.) Experience in working with children in informal situations such as camp counseling and playground supervision.

Field experience in September in a public school should be taken no later than the September prior to the student's Junior year. Any student who engages in ten consecutive days of experience in the public school in September may elect to secure course credit by enrolling for Education 277 in the fall semester.

B. Special Prerequisites for Student Teaching in Elementary Education.

1. Completion of at least seventy-five semester hours of course credit.
2. 2.0 (C) cumulative point-hour ratio on all courses completed in the following group, and specifically a 2.0 on the courses in this group taken at Ohio University.
 - a. Ed. 102—Literature for Children
 - b. Ed. 103—Studies of Children
 - c. Ed. 165—Teaching of Arithmetic
 - d. Ed. 163—Teaching of Reading and Language
 - e. Ed. 169—Teaching of Social Studies and Science
 - f. Mus. 262—Music for the Classroom Teacher
 - g. Art 160—Practical Design Workshop for Elementary Teachers
 - h. P.E. 270—Teaching of Physical Education
 - i. Psych. 5—Educational Psychology
3. A student who has more than one "D" in the three courses, Ed. 103, Studies of Children, Ed. 163, Teaching of Reading and Language, and Ed. 165, Teaching of Arithmetic, will not be admitted to student teaching.

C. Special Prerequisites for Student Teaching in Secondary Academic and Special Subjects.

1. Completion of ninety semester hours. Exception may be made for students who have completed seventy-five hours who wish to be placed in an off-campus student teaching center. Such a student should have achieved an academic average above the minimum stated herein, and possess a well-rounded background of professional preparation.

2. Completion of Psych. 5, Educational, Ed. 125, Purposes and Practices of Education, or Ed. 130, Secondary Education, and Ed. 229, Curriculum and Teaching Practices.
3. A cumulative point-hour ratio of 2.0 (C) must be attained in all education courses attempted, and specifically a 2.0 on all courses taken at Ohio University. This includes Psych. 5, Ed. 125 or Ed. 130, and Ed. 229, a teaching methods course, and any other courses offered in the Department of Education.
4. Completion of a major portion of the work in each of the teaching fields in which the student wishes to be certified. A cumulative point-hour ratio of 2.0 must be attained in each of these fields, and specifically a 2.0 on the courses taken at Ohio University in each field.

THE UNIVERSITY ELEMENTARY SCHOOL

The College of Education of Ohio University maintains the University Elementary School, consisting of a four-year and a five-year kindergarten, and grades one through six. The first function of this school is to furnish the best possible learning environment and instruction for children, since this is essential if good laboratory experiences are to be made available to college students who are training for elementary teaching. Teachers in the University Elementary School are members of the university staff with training in elementary education and supervision, and successful teaching experience.

CENTER FOR EDUCATIONAL SERVICE

The Center for Educational Service is a division of the College of Education and is designed to make available the resources of the College of Education and of the University to educational workers — teachers, administrators, and supervisors. These services are also available to boards of education and to the public in communities served by Ohio University.

For operational purposes, the Center is divided into the following sections: Administrative Services; Curriculum and Instructional Services; Economic Education; Pupil Personnel Services; and Research.

The Center's chief functions are: (1) to provide consultant services in such areas as curriculum planning, use of community resources, economic education, guidance programs, school-community relations, reading, testing, and supervisory and administrative problems (such consultative services may involve one or several staff members and may be a single meeting or a series of conferences and meetings); (2) to conduct school surveys of educational programs and curricula, school building and site needs, and organization of school districts; (3) to assist in solution of professional problems through off-campus and on-campus workshops; (4) to promote conferences on vital problems confronting public education; (5) to publish those studies and reports which will aid in solving educational problems, and to distribute such publications; (6) to assist schools with the organization or re-

vision of programs of reading (especially for exceptional children), guidance and testing; and (7) to encourage cooperative attack by teachers, administrators, boards of education, and the public toward solution of educational needs.

A collection of materials from public school systems and universities in all parts of the United States forms a curriculum and administrative materials laboratory. These materials are available to students and staff members for on-campus courses and to workshop study groups for resource material. Selected items may be loaned to teachers and administrators for committee work in their own school systems.

GRADUATE WORK IN EDUCATION

Graduate work at Ohio University is under the direction of the Graduate College and its Graduate Council, and is described in the Graduate College section of the catalog.

The College of Education offers many advanced graduate courses to help school workers raise the level of their competence in their professional work. Programs are available leading to the M.Ed. and Ph.D. degrees. It is also possible in certain fields to plan a sixth year of study or "Professional Competency Program". Detailed descriptions of these various graduate programs may be secured from the College of Education or the Graduate College.

The types of programs offered cover the following professional fields:

Elementary Education—teaching in elementary schools, supervision, and administration of elementary schools.

History and Philosophy of Education.

Research Work in Education.

Secondary Education—teaching in secondary schools, supervision, and administration of secondary schools.

School Administration and Supervision—the school superintendency, the school principalship, school supervision, school business management.

Guidance Services in the Schools—the school counselor, the director of guidance, school psychologist, visiting teacher, the guidance functions of teachers and administrators.

In each of these fields, and to a limited extent in some other fields, the College of Education is prepared to advise students and to help them plan graduate programs most appropriate for their professional goals. Upon consultation with the Dean of the Graduate College, the prospective graduate student in Education will be directed to the Graduate Committee of the College of Education. He will be assigned a graduate adviser and will be given every opportunity to develop a rich and rewarding graduate experience.

TEACHING CERTIFICATES

A student who plans to teach in Ohio makes application for a teaching certificate at the time of application for graduation. The teaching certificate is issued by the State Department of Education upon the recommendation of the College of Education, and qualifies the student to teach the subjects indicated on the certificate.

Completion of requirements for graduation and of the professional courses required for certification does not insure that the individual will be recommended for certification. Instructors in various courses, and especially in courses in education and student teaching, will attempt to evaluate a student's fitness for the teaching profession in ways other than observation of academic performance in the classroom. Any reports of limitations which might tend to impair the individual's usefulness as a teacher in the public schools will be made a part of the student's record. When the student makes application for certification this record will be examined and the question of his fitness for teaching will be given further consideration.

Students who are not planning to teach in Ohio should inform themselves concerning the requirements specified by the department of education of the state in which they expect to teach.

A student who plans to teach in the elementary grades registers in the College of Education when he has completed the requirements of the University College. The curricula offered by the College of Education include the requirements of the State Department of Education and qualify a student to obtain a provisional certificate to teach in the elementary grades or the kindergarten-primary grades, depending upon the student's preparation.

Students who plan to teach high school academic or special subjects, ordinarily enroll in the College of Education. The curricula of the College of Education include the requirements of the State Department of Education and qualify the student to obtain a provisional certificate to teach the subjects indicated on the certificate. Students enrolled in other colleges of the University may meet certification requirements by completing the necessary professional subjects and completing requirements in the subjects which they plan to teach.

Students meet the minimum professional requirements for secondary certification to teach in Ohio by completing the following:

Subject	Sem. Hrs.
Psych. 5—Educational Psychology	3
Ed. 130—Secondary Education	3
Ed. 229—Curriculum and Teaching Practices	4
A methods course (in major or minor)	2-3
Ed. 281—Student Teaching in the Secondary Schools --	7

Minimum standards for certification in the various secondary and special subjects have been established by the State Department of Education. Students wishing information about certification requirements should consult the College of Education.

THE COLLEGE OF FINE ARTS

EARL C. SEIGFRED

DEAN

THE SCHOOL OF DRAMATIC ART AND SPEECH

CLAUDE E. KANTNER, DIRECTOR

Dramatic Art

Radio-Television

Public Address

Speech and Hearing Therapy

THE SCHOOL OF MUSIC

KARL AHRENDT, DIRECTOR

Applied Music

Music Education

Music History and Literature

Music Therapy

Theory and Composition

THE SCHOOL OF PAINTING AND ALLIED ARTS

FREDERICK D. LEACH, DIRECTOR

Architecture

Art Education

Art History

Design

Painting and Drawing

Photography

Sculpture and Ceramics

THE COLLEGE OF FINE ARTS

The College of Fine Arts comprises the School of Dramatic Art and Speech, the School of Music, and the School of Painting and Allied Arts, offering a broad, cultural education in the fine arts and special training in the following departments: Dramatic Production, Radio-Television, Public Address, Speech and Hearing Therapy, Applied Music, Music History and Literature, Music Theory and Composition, Music Education, Music Therapy, Architecture, Design, Painting and Drawing, Photography, Art History and Appreciation, Sculpture and Ceramics, and Art Education.

BACHELOR OF FINE ARTS

The Bachelor of Fine Arts degree fulfills three functions: to provide the student with specialized training in one of the fine arts; to provide a cultural background through a study of the relationship of all of the arts; and to prepare the student, as far as possible, to become a responsible member of society. To these ends, the program has been kept flexible to meet individual needs. Every effort is made for educational and vocational counseling.

Candidates for the degree in the College of Fine Arts complete the general graduation requirements, which include a minimum of 124 semester hours with a point-hour ratio of 2.0 (C) on all hours attempted, but including only the final hours and points in repeated courses, and in addition this same point-hour ratio on all hours in the field of specialization. For a student with transferred credit, this rule applies to his cumulative record, which includes transferred credits, and to his Ohio University record, exclusive of transferred credits. These requirements include the program of the University College.

Students working toward the Bachelor of Fine Arts degree must complete a major in one of the schools of the College of Fine Arts and a minor of 18 hours in general courses in the fine arts, including F.A. 17-18—Introduction to the Fine Arts. In addition to this course, five others are offered from which the student must select two to complete the minor: History of Painting and Sculpture, History of Music, History of Architecture, History of the Visual Theatre, History of Oratory. Six hours of the minor must be in an area outside of the School in which the student is pursuing his major. Descriptions of the general courses may be found under "Fine Arts."

As an alternate to the eighteen-hour minor in history and appreciation, it is possible in certain areas to fulfill the minor requirement by completing F.A. 17-18 and twelve semester hours of applied work in one of the schools of the College of Fine Arts other than that in which a major is being pursued. Before undertaking an alternate minor it is necessary to obtain written permission from the dean of the college.

Those who are planning to teach in Ohio should fulfill the minimum requirements for certification by completing the following:

	Hours		Hours
Psych. 5—Educational Psychology	3	A methods course	2-3
Ed. 125—Purposes and Practices		Student teaching	7
of Education	3		
Ed. 229—Curriculum and Teaching			
Practices	4		

MAJORS IN THE SCHOOL OF DRAMATIC ART AND SPEECH. The curriculum of the School of Dramatic Art and Speech provides a general major for those who wish a broad background and also permits more specialized majors in theatre, oral communication in business and industry, radio-television, and speech and hearing therapy for those who wish to concentrate their work in one of these areas. The requirements for these specialized majors are, however, based upon the principle that all majors in any phase of dramatic art and speech should have a general background of certain basic courses. The program is flexible and is intended to meet the needs and abilities of the individual students.

The University College program should include Speech 1, Speech 7, and Fine Arts 17-18. Other courses available to students in the University College are: Speech 3, 25, and 34; Radio-TV 47 and 79 and Dramatic Art 10, 21, 47, and 48.

Majors in theatre must elect 12 hours of English beyond the University College requirement, including either Eng. 223, 224, 323, or 324—Shakespeare, and at least three additional hours in dramatic literature. General speech majors and majors in radio and speech and hearing therapy must elect six hours of English beyond the University College requirement or General Studies 7, 8—Great Books. Students who plan to teach speech and English in the public schools should consult with their advisers concerning additional requirements in English and Education.

The School of Dramatic Art and Speech maintains a speech and hearing clinic which serves the needs of students, faculty, and the public. Consultations concerning all types of speech disorders may be arranged with the director of the clinic. Remedial training is provided without charge to regularly enrolled students under the direction of a competent speech pathologist. A special speech clinic for children serves the Athens area and provides excellent training opportunities for students in speech correction. Nominal fees are charged for the examination or treatment of non-students.

Practical experience in radio and television is provided in the University radio station, WOUB-AM and WOUI-FM and in the closed circuit television laboratory. Students wishing to work in the theatre may take part in the productions of the University Theatre, the Playshop, the Ohio Valley Summer Theatre, and the Monomoy Summer Theatre on Cape Cod. Those interested in public address may participate in first-year debate, varsity debate, and inter-collegiate contests in oratory, extempore speaking and interpretation. The School of Dramatic Art and Speech also sponsors the following professional societies: Tau Kappa Alpha (forensics), Footlighters and National Collegiate

Players (theatre), Alpha Epsilon Rho and Collegiate Broadcasting Club (radio-television), and Sigma Alpha Eta (speech and hearing therapy). These activities and societies are described in the Student Activities section of the catalog.

BASIC COURSES REQUIRED FOR ALL MAJORS

	Hours		
Speech 7—Basic Speech Training	2	Speech 195—Principles of Speech	
Speech 3—Public Speaking	2	Correction	3
Speech 25—Principles of Argumentation	2	Radio-TV 79—Introduction to Radio-TV	2
Speech 34—Oral Interpretation of Literature	3	Dram. A. 10—Introduction to Theatre	2
Speech 104—Bases of Speech	3		
Note: In addition, all majors are required to demonstrate adequate mastery of basic voice and articulation skills in a speech proficiency test. A satisfactory rating on this test is required for graduation.			

MAJOR IN GENERAL SPEECH

In addition to the basic courses listed above, the following must be completed:

	Hours		
Speech 110—Parliamentary Procedure	1	Speech 309—Classical Rhetoric	3
Speech 112—Adv. Public Speaking	2	Speech 325—Direction of Forensic Programs	3
Speech 305—Problem Solving Through Group Discussion	3	Electives in Dramatic Art and Speech to be chosen from Group A or Group B below:	8-9
Group A		Group B	
Radio-TV 180—Radio Speech	2	Speech 147—Workshop in Public Address	2
Radio TV 225—Radio Production	3	Speech 303—Adv. Oral Interpretation or Speech 333—Oral Interpretation of Dram. Lit.	3
Dram. A. 21—Elements of Stage Scenery	3	Speech 342—Persuasion	3
Dram. A. 99—Movement and Pantomime	2	Speech 349—Rhetorical Criticism	3
Dram. A. 105—Play Production	3	Speech 372—British and French Pub. Address	3
Dram. A. 299—Principles of Acting	3	Speech 395—Adv. Argumentation and Debate	3

Note: Students planning to teach speech in the high school should also schedule Speech 260—Teaching of High School Dramatics and Speech and consult with their advisers concerning requirements for certification and preparation for teaching in a second subject matter area such as History, English, Sociology, etc.

MAJOR IN ORAL COMMUNICATION IN BUSINESS AND INDUSTRY

In addition to the basic courses listed above, the following must be completed:

	Hours		
Speech 110—Parliamentary Procedure	1	Psych. 341—Psychology of Communication	3
Speech 112—Advanced Public Speaking	2	Soc. 229—Crowd, Mass. and Public or Soc. 336—Public Opinion and Mass Communications	3
Speech 305—Problem Solving Through Group Discussion	3	Two Courses to be chosen from the following:	6
Speech 340—Applications of General Semantics to Speech	3	Psych. 320—Personnel and Vocational Counseling	
Speech 342—Persuasion	3	Psych. 351—Seminar in Psychological Problems in Industry	
Speech 344—Approaches to the Study of Oral Communication	3	Soc. 320—Industrial Sociology	
Electives in Public Address	3	Jour. 327—Public Relations Techniques	
Psych. 110—Psychology of Adjustment or Psych. 135—Psychology of Advertising and Selling	3	Advt. 155—Advt. Principles	
Psych. 315—Social Psychology	3		

Note: Majors in general speech or oral communication should also elect F.A. 203-204, History of Oratory, as one of the minor subjects.

MAJOR IN RADIO-TELEVISION

In addition to the basic courses listed above, the following must be completed:

	Hours		
Radio-TV 47—Workshop in Station Procedures	1	Radio-TV 226—Advanced Radio Production	2
Radio-TV 105—Broadcasting Mechanics	2	Radio-TV 301—Principles of Television	3
Radio-TV 180—Radio Speech	3	Radio-TV 316—Continuity Writing	2
Radio-TV 225—Radio Production	3	Radio-TV 375—Program Planning and Building	3

MAJOR IN SPEECH AND HEARING THERAPY

In addition to the basic courses listed above, the following must be completed:

	Hours		
Speech 307—Clinical Methods	3	Speech 319—Audiometry and Speech and Hearing Problems	3
Speech 310—Speech Pathology	3	Speech 320—Advanced Clinical Methods	3
Speech 312—Phonetics	3	Speech 323—Lip Reading	3

Students who anticipate obtaining positions in speech and hearing therapy in the public schools of Ohio must also include in their elective subjects the following courses in speech and hearing therapy, psychology, and education. This program meets the requirements in the State of Ohio for the special certificate in this field. A student who wishes to prepare for a public school position in speech correction in any state other than Ohio should obtain the requirements of the state in question and, with his adviser, plan his program accordingly.

	Hours		
Speech 335—Diagnostic Procedures in Speech and Hearing Therapy	3	Psych. 310—Behavior Pathology	3
Speech 345—Stuttering and Psychogenic Disorders of Speech	3	Ed. 125—The Purposes and Practices of Education	3
Psych. 1 or 101—General Psychology	3	Ed. 229—Curriculum and Teaching Practices	4
Psych. 5—Educational Psychology	3	Speech 262—Speech and Hearing Therapy in Public Schools	2
Psych. 103—Child Psychology or Ed. 103—Studies of Children	3	Ed. 272—Student Teaching in the Elementary Grades (Speech correction)	5
Psych. 113—Psychology of Adolescence	2		
Psych. 204—Psychology of Exceptional Children	2		

All students who major in speech and hearing therapy, whether looking forward to certification or not, must complete a minimum of 22 hours in psychology and education including Speech 262, Ed. 272, 103, or Psych. 103, Psych. 204, 310 or 337, and Speech 335.

MAJOR IN THEATRE

In addition to the basic courses listed above, the following must be completed:

	Hours		
Dram. A. 21—Elements of Stage Scenery	3	Dram. A. 123—Elements of Stage Lighting	3
Dram. A. 48—Make-up	1	Dram. A. 207—Costuming	4
Dram. A. 99-100—Movement and Pantomime	4	Dram. A. 299—Principles of Acting	3
		Dram. A. 350—Play Direction	3

Note: Theatre majors should include F.A. 179-180—History of the Visual Theatre, as one of their minor subjects.

MAJORS IN THE SCHOOL OF MUSIC. Ohio University is a member of the National Association of Schools of Music. The requirements for entrance and for graduation as set forth in this catalog are in accordance with the standards set up by the association.

The School of Music makes provisions for individual study in all branches of vocal and instrumental music and offers a wide range of courses in the fields of theory and composition, music history and literature, music education, and music therapy. Opportunities are provided for individual participation in student recitals, as well as for ensemble experience in groups such as the chorus, symphony orchestra, symphonic band, chamber music, and glee clubs.

Six hours of English beyond the University College requirement, or Gen. Studies 7, 8—Great Books, are to be taken by candidates for the degree of Bachelor of Fine Arts with a major in music. A required minor consists of 18 hours of general courses in the fine arts.

Students who desire to specialize in the field of music education are given the opportunity of preparing for the positions of special music teacher or music supervisor while working toward the degree of Bachelor of Fine Arts. In accordance with state requirements, the major may be vocal, instrumental, or teaching and supervision of elementary music.

Students in the College of Arts and Sciences may major in two areas—music history and literature or music theory. The director of the School of Music should be consulted as the adviser of the course.

Examinations in applied music are given at the end of each semester by a faculty committee in the applied music field concerned. The examinations must be taken by all music majors in those applied music courses which are required for the degree. It should be understood that completion of credit hours in applied music should be in agreement with the proficiency requirements as set up by the School of Music. These requirements may be secured at the office of the School of Music. Majors in applied music are required to present a junior and a senior recital.

Majors are required to attend all recitals and to participate in orchestra, chorus, or band, depending upon their applied major.

The following curricula have been set up for music majors in the College of Fine Arts.

MAJOR IN PIANO
(Four-Year Curriculum)

Twenty-six semester hours in applied music including 18 hours in piano, and 8 hours in ensemble (chorus, orchestra, band, or chamber music).

Twenty-six semester hours in the theory and literature of music, including Mus. 3-4, 103-104, 105-106, 201-202, 340, and one of the following: Mus. 313-314, 315-316, 317-318, or 319-320.

Eighteen semester hours, to constitute the minor, in general courses in the fine arts, including F.A. 17-18 and 123-124.

Twenty-one to twenty-five hours of general requirements, including 12 hours of English, Speech 1, two hours in physical education, and other subjects to fulfill the University College requirements.

Twenty-five to twenty-seven semester hours of elective courses.

Total requirements: 124 semester hours.

Freshman Program

The University College Program should include:

First Semester	Hours	Second Semester	Hours
Freshman Piano	2	Freshman Piano	2
Mus. 3—Theory	3	Mus. 4—Theory	3
F. A. 17—Introduction to the Fine Arts 3		F. A. 18—Introduction to the Fine Arts 3	
Ensemble	1	Ensemble	1
University College requirements	7	University College requirements	8
	16		17

Sophomore Program

Sophomore Piano	2	Sophomore Piano	2
Mus. 103—Dictation and Sight Singing ..	2	Mus. 104—Dictation and Sight Singing ..	2
Mus. 105—Harmony	3	Mus. 106—Harmony	3
English elective	3	English elective	3
Fine arts minor	3	Fine arts minor	3
Ensemble	1	Ensemble	1
Electives	3	Electives	3
	17		17

Junior Program

Junior Piano -----	2	Junior Piano -----	2
Mus. 201—Analysis and Form -----	2	Mus. 202—Analysis and Form -----	2
F. A. 123—History of Music -----	3	F. A. 124—History of Music -----	3
Ensemble -----	1	Ensemble -----	1
Electives -----	7	Electives -----	7
	15		15

Senior Program

Senior Piano -----	3	Senior Piano -----	3
Mus. 340—The Literature of -----	2	Advanced music theory elective -----	2
Piano Music -----	2	Ensemble -----	1
Advanced music theory elective -----	2	Electives -----	8
Ensemble -----	1		14
Electives -----	7		
	15		

MAJOR IN VOICE

(Four-Year Curriculum)

Thirty semester hours in applied music, including 18 hours in voice, 4 hours of piano, and 8 hours in ensemble (chorus).

Twenty-two semester hours in the theory and literature of music including Mus. 3-4, 103-104, 105-106, 201-202, and 337 or 339.

Eighteen semester hours to constitute the minor, in general courses in the fine arts, including F.A. 17-18 and 123-124.

Thirty-nine to forty-three hours of general requirements, including 12 hours in English, Speech 1, two hours in physical education, and other subjects to fulfill the University College requirements.

Seven to nine semester hours of elective courses.

Total requirements: 124 semester hours.

Freshman Program

The University College Program should include:

First Semester	Hours	Second Semester	Hours
Freshman Voice -----	2	Freshman Voice -----	2
Mus. 3—Theory -----	3	Mus. 4—Theory -----	3
F. A. 17—Introduction to the Fine Arts -----	3	F. A. 18—Introduction to the Fine Arts -----	3
Ensemble -----	1	Ensemble -----	1
University College requirements -----	7	University College requirements -----	8
	16		17

Sophomore Program

Sophomore Voice -----	2	Sophomore Voice -----	2
Secondary Piano -----	1	Secondary Piano -----	1
Mus. 103—Dictation and Sight Singing -----	2	Mus. 104—Dictation and Sight Singing -----	2
Mus. 105—Harmony -----	3	Mus. 106—Harmony -----	3
English elective -----	3	English elective -----	3
Fr. 1—Beginning French -----	4	Fr. 2—Beginning French -----	4
Ensemble -----	1	Ensemble -----	1
	16		16

Junior Program

Junior Voice -----	2	Junior Voice -----	2
Secondary Piano -----	1	Secondary Piano -----	1
Mus. 201—Analysis and Form -----	2	Mus. 202—Analysis and Form -----	2
F. A. 123—History of Music -----	3	F. A. 124—History of Music -----	3
Ger. 1—Beginning German -----	4	Ger. 2—Beginning German -----	4
Ensemble -----	1	Ensemble -----	1
Electives -----	2	Electives -----	2
	15		15

Senior Program	
Senior Voice -----	3
Fine arts minor -----	3
Ensemble -----	1
Electives -----	8
	15
Senior Voice -----	3
Mus. 337—The Literature of	
Vocal Music (2) or	
Mus. 339—The Evolution of the	
Opera (3) -----	2-3
Fine arts minor -----	3
Ensemble -----	1
Electives -----	5
	14-15

**MAJOR IN ORCHESTRAL INSTRUMENTS: STRINGS, WOODWINDS,
BRASS, OR PERCUSSION**
(Four-Year Curriculum)

Thirty semester hours in applied music, including 18 hours in major instrument, 4 hours in piano, and 8 hours of ensemble (orchestra, band, or chamber music).

Twenty-six semester hours in the theory and literature of music, including Mus. 3-4, 103-104, 105-106, 201-202, 338, and one of the following: Mus. 313-314, 315-316, 317-318, or 319-320.

Eighteen semester hours, to constitute the minor, in general courses in the fine arts, including F.A. 17-18 and 123-124.

Twenty-one to twenty-five hours of general requirements, including 12 hours in English, Speech 1, two hours in physical education, and other subjects to fulfill the University College requirements.

Twenty-one to twenty-three semester hours of elective courses.

Total requirements: 124 semester hours.

Freshman Program

The University College Program should include:

First Semester	Hours	Second Semester	Hours
Major Instrument -----	2	Major Instrument -----	2
Mus. 3—Theory -----	3	Mus. 4—Theory -----	3
F. A. 17—Introduction to the Fine Arts	3	F. A. 18—Introduction to the Fine Arts	3
Ensemble -----	1	Ensemble -----	1
University College requirements -----	7	University College requirements -----	8
	16		17

Sophomore Program

Major Instrument -----	2	Major Instrument -----	2
Secondary Piano -----	1	Secondary Piano -----	1
Mus. 103—Dictation and Sight Singing	2	Mus. 104—Dictation and Sight Singing	2
Mus. 105—Harmony -----	3	Mus. 106—Harmony -----	3
English elective -----	3	English elective -----	3
Fine arts minor -----	3	Fine arts minor -----	3
Ensemble -----	1	Ensemble -----	1
	15		15

Junior Program

Major Instrument -----	2	Major Instrument -----	2
Secondary Piano -----	1	Secondary Piano -----	1
Mus. 201—Analysis and Form -----	2	Mus. 202—Analysis and Form -----	2
F. A. 123—History of Music -----	3	F. A. 124—History of Music -----	3
Ensemble -----	1	Ensemble -----	1
Electives -----	7	Electives -----	6
	16		15

Senior Program

Major Instrument -----	3	Major Instrument -----	3
Advanced music theory elective -----	2	Advanced music theory elective -----	2
Ensemble -----	1	Mus. 358—The Literature of	
Electives -----	9	Orchestral Music -----	2
	15	Ensemble -----	1
		Electives -----	7
			15

MAJOR IN MUSIC EDUCATION
(Four-Year Curriculum)

Sixteen semester hours in applied music, including completion of voice and piano requirements for vocal majors and required proficiency for the principal instrument for instrumental majors. Instrumental majors must also complete at least 3 hours in a secondary instrument (if principal instrument is wind, 3 hours must be in string, and vice versa). Instrumental majors must further complete piano proficiency and 2 hours of voice.

Twenty semester hours of theory, including Mus. 3-4, 103-104, 105-106, 201 and 233.

Eighteen semester hours, to constitute the minor, in courses in the fine arts, including F.A. 17-18, and F.A. 123-124.

Eighteen semester hours of music education to include Mus. 261, 263, 265, 266, 267, and 273.

Twenty-nine semester hours of general requirements, including 12 hours in English, Speech 1, two hours in physical education, 6 hours in social sciences, and 6 hours in mathematics and/or science, and other courses to fulfill the University College requirements.

Twenty hours in education for completion of certification requirements to include Psych. 1 and 5, Ed. 130 or 125, 229, 272, 281.

Eight hours for ensemble participation (band, chorus, glee clubs, or orchestra).

A special program emphasizing the teaching and supervision of music in the elementary schools is also provided. Students desiring this program should consult the check sheet provided by the music education department.

Total requirements: 124-135 semester hours.

Freshman Program

The University College Program should include:			
First Semester		Second Semester	
	Hours		Hours
Eng. 3—English Composition	3	Eng. 4—English Composition	3
F. A. 17—Introduction to the Fine Arts	3	F. A. 18—Introduction to the Fine Arts	3
Mus. 3—Theory	3	Mus. 4—Theory	3
Psych. 1—General Psychology	3	Speech 1—Fundamentals of Speech	1
P. E.—Physical Education	1	P. E.—Physical Education	1
Applied	2	Applied	2
Participation	1	Participation	1
	16	Social Science	3
			17

Sophomore Program

Mus. 103—Dictation and Sight Singing	2	Mus. 104—Dictation and Sight Singing	2
Mus. 105—Harmony	3	Mus. 106—Harmony	3
Eng. 102—Sophomore English Literature	3	Ed. 130—Secondary Education	3
Psych. 5—Educational Psychology	3	Applied	2
Applied	2	Participation	1
Participation	1	Science/Math.	3
Science/Math.	3	Elective	3
	17		17

Junior Program

Mus. 261—String Techniques and Materials -----	2	Mus. 263—Wind and Percussion Techniques and Materials -----	2
Mus. 262—Wind and Percussion Techniques and Materials -----	2	Mus. 265—Vocal Techniques and Materials -----	2
Mus. 273—Conducting -----	2	Ed. 229—Curriculum and Teaching -----	4
F. A. 123—History of Music -----	3	F. A. 124—History of Music -----	3
Eng. 111or 112—Chief American Writers -----	3	Applied -----	2
Applied -----	2	Participation -----	1
Participation -----	1	Mus. 266—Teaching Music in the Elementary Grades -----	3
	15		17

Senior Program

Mus. 233—Instrumentation -----	3	Ed. 272—Student Teaching in the Elementary Grades -----	3
Mus. 201—Analysis and Form -----	2	Ed. 281—Student Teaching in the Secondary Schools -----	4
Mus. 267—Music Supervision and Administration -----	3	F. A. Minor -----	3
F. A. Minor -----	3	Applied -----	2
Applied -----	2	Participation -----	1
Participation -----	1	Elective -----	3
Elective -----	3		16
	17		

MAJOR IN MUSIC THERAPY

(Four-Year Curriculum)

The Music Therapy curriculum is designed to meet requirements of both the College of Fine Arts and the National Association for Music Therapy. The fulfillment of the requirements prescribed by the Association permits the graduate to apply for listing with the Association as a registered music therapist.

The student is not limited to the subjects and hours listed below; however, this curriculum outlines the minimum requirements.

Total requirements: 138 semester hours to include credit for clinical experience.

Freshman Program

First Semester	Hours	Second Semester	Hours
English 3—English Composition -----	3	English 4—English Composition -----	3
F. A. 17—Introduction to the Fine Arts -----	3	F. A. 18—Introduction to the Fine Arts -----	3
Biology 1—The Living World -----	3	Biology 2—The Living World -----	3
Psych. 1—General Psychology -----	3	Psych. 5—Educational Psychology -----	3
Piano -----	1	Piano -----	1
Ensemble -----	1	Ensemble -----	1
P. E. (Physical Education) -----	1	P. E. (Physical Education) -----	1
Voice -----	1	Voice -----	1
		Speech 1 -----	1
Total -----	16	Total -----	17

Sophomore Program

Mus. 3—Theory -----	3	Mus. 4—Theory -----	3
Mus. 261—String Techniques and Materials -----	2	Mus. 263—Wind and Percussion -----	2
Phys. Sc. 3—The Physical World -----	3	Phys. Sc. 4—The Physical World -----	3
Psych. 113—Psychology of Adolescence -----	2	Psych. 103—Child Psychology -----	3
English—Elective -----	3	or -----	
Piano -----	1	Psych. 204—Psychology of Exceptional Children -----	2
Ensemble -----	1	English—Elective -----	3
P. E. (Physical Education) -----	1	Piano -----	1
		Ensemble -----	1
Total -----	16	P. E. (Physical Education) -----	1
		Total -----	16-17

Junior Program

Mus. 103—Dictation and Sight Singing -----	2	Mus. 104—Dictation and Sight Singing -	2
Mus. 105—Harmony -----	3	Mus. 106—Theory -----	3
Soc. 101—Principles of Sociology -----	3	Soc. 210—Social Behavior -----	3
F.A. 123—History of Music -----	3	F.A. 124—History of Music -----	3
Fine Arts Minor -----	3	Mus. 265—Vocal Techniques -----	2
Piano -----	1	Piano -----	1
Ensemble -----	1	Ensemble -----	1
Total -----	16	Total -----	15

Senior Program

Mus. 313—Orchestration -----	2	Mus. 314—Orchestration -----	2
Mus. 374—Foundations of Music -----	4	Mus. 379—Music Therapy -----	2
Mus. 377—Background of Music Therapy -----	2	Mus. 263—Woodwind & Percussion -----	2
Psych. 312—Abnormal Psychology -----	3	Mus. 269—Social and Recreational Instruments and Materials -----	2
Mus. 263—Woodwind & Percussion -----	2	Soc. 260—Marriage and the Family or -----	3
Mus. 268—General Music for Adolescents and Adults -----	3	Soc. 322—Juvenile Delinquency -----	3
Piano -----	1	Fine Arts Minor -----	3
Ensemble -----	1	Piano -----	1
Total -----	18	Organ -----	1
		Ensemble -----	1
		Total -----	17

In addition to the above course work at Ohio University, the student must complete Music 380—Clinical Experience, to meet certification requirements as a music therapist.

MAJOR IN MUSIC THEORY OR COMPOSITION

(Four-Year Curriculum)

Eight semester hours in applied music, including required proficiency in the principal instrument, Mus. 261, 263, and 8 hours in ensemble (chorus, orchestra, band, or chamber music). Piano proficiency is required if the principal instrument is not piano.

Forty to forty-four semester hours in the theory and literature of music, including Mus. 3-4, 103-104, 105-106, 201-202, 313-314, 315-316, 317-318, 319-320, 357-358, and 371-372. (Mus. 371-372 is required only of majors in composition.)

Eighteen semester hours, to constitute the minor, in general courses in the fine arts, including F.A. 17-18 and 123-124.

Twenty-one to twenty-five hours of general requirements, including 12 hours in English, Speech 1, two hours in physical education, and other subjects to fulfill the University College requirements.

Seventeen to twenty-three semester hours of elective courses.

Total requirements: 124 semester hours.

Freshman Program

The University College Program should include:

First Semester	Hours	Second Semester	Hours
Principal instrument -----	1	Principal instrument -----	1
Mus. 3—Theory -----	3	Mus. 4—Theory -----	3
F. A. 17—Introduction to the Fine Arts	3	F. A. 18—Introduction to the Fine Arts	3
Ensemble -----	1	Ensemble -----	1
University College requirements -----	7	University College requirements -----	8
Total -----	15	Total -----	16

Sophomore Program

Principal instrument -----	1	Principal instrument -----	1
Mus. 103—Dictation and Sight Singing -----	2	Mus. 104—Dictation and Sight Singing -----	2
Mus. 105—Harmony -----	3	Mus. 106—Harmony -----	3
Mus. 261—String Techniques -----		English elective -----	3
and Materials -----	2	Fine arts minor -----	2
English elective -----	3	Ensemble -----	1
Fine arts minor -----	3	Electives -----	2
Ensemble -----	1		
	15		15

Junior Program

Principal instrument -----	1	Principal instrument -----	1
Mus. 263—Wind and Percussion -----		Mus. 202—Analysis and Form -----	2
Techniques and Materials -----	2	Mus. 316—Advanced Harmony -----	2
Mus. 201—Analysis and Form -----	2	Mus. 318—Counterpoint -----	2
Mus. 315—Advanced Harmony -----	2	Mus. 320—Composition -----	2
Mus. 317—Counterpoint -----	2	F. A. 124—History of Music -----	3
Mus. 319—Composition -----	2	Ensemble -----	1
F. A. 123—History of Music -----	3	Electives -----	3
Ensemble -----	1		
Electives -----	1		16
	16		

Senior Program

Principal instrument -----	1	Principal instrument -----	1
Mus. 313—Orchestration -----	2	Mus. 314—Orchestration -----	2
Mus. 357—Counterpoint -----	2	Mus. 358—Counterpoint -----	2
Mus. 371—Composition* -----	2	Mus. 372—Composition* -----	2
Ensemble -----	1	Ensemble -----	1
Electives -----	8-10	Electives -----	7-9
	16-18		15-17

MAJOR IN MUSIC LITERATURE

(Four-Year Curriculum)

Eight semester hours in applied music, including required proficiency in principal instrument, and 8 hours ensemble (chorus, orchestra, band, or chamber music). Piano proficiency is required if the principal instrument is not piano.

Twenty-six semester hours in the theory and literature of music, including Mus. 3-4, 103-104, 105-106, 201-202, and 6 hours chosen from Mus. 337, 338, 339, and 340.

Eighteen semester hours to constitute the minor in general courses in the fine arts, including F.A. 17-18 and 123-124.

Forty-three to forty-seven hours of general requirements, including 12 hours in English, Speech 1, two hours in physical education, and other subjects to fulfill the University College requirements.

Thirteen to fifteen hours of elective courses.

Total requirements: 124 semester hours.

Freshman Program

The University College Program should include:

First Semester	Hours	Second Semester	Hours
Principal instrument -----	1	Principal instrument -----	1
Mus. 3—Theory -----	3	Mus. 4—Theory -----	3
F. A. 17—Introduction to the Fine Arts -----	3	F. A. 18—Introduction to the Fine Arts -----	3
Ensemble -----	1	Ensemble -----	1
University College requirements -----	7	University College requirements -----	8
	15		16

*Required of majors in composition only.

Sophomore Program

Principal instrument -----	1	Principal instrument -----	1
Mus. 103—Dictation and Sight Singing -----	2	Mus. 104—Dictation and Sight Singing -----	2
Mus. 105—Harmony -----	3	Mus. 106—Harmony -----	3
English elective -----	3	English elective -----	3
Fine arts minor -----	3	Fine arts minor -----	3
Hist. 1—Western Civilization -----	3	Hist. 2—Western Civilization -----	3
in Modern Times -----	3	in Modern Times -----	3
Ensemble -----	1	Ensemble -----	1
	<hr/> 16		<hr/> 16

Junior Program

Principal instrument -----	1	Principal instrument -----	1
Mus. 201—Analysis and Form -----	2	Mus. 202—Analysis and Form -----	2
F. A. 123—History of Music -----	3	F. A. 124—History of Music -----	3
Fr. 1—Beginning French -----	4	Fr. 2—Beginning French -----	4
Ensemble -----	1	Ensemble -----	1
Electives -----	5	Electives -----	5
	<hr/> 16		<hr/> 16

Senior Program

Principal instrument -----	1	Principal instrument -----	1
Music literature elective -----	4	Music literature elective -----	2
Ger. 1—Beginning German -----	4	Ger. 2—Beginning German -----	4
Ensemble -----	1	Ensemble -----	1
Electives -----	5	Electives -----	6
	<hr/> 15		<hr/> 14

MAJORS IN THE SCHOOL OF PAINTING AND ALLIED ARTS. *Basic Program.*

The following program is intended to serve as a foundation for specialization in the Junior and Senior years. It is planned in a way to give the student a thorough preparation in drawing and design and an introduction to the various media through which this knowledge may find expression in aesthetic form. At the end of the sophomore year, each student will have become familiar with the basic problems in drawing, design, sculpture, commercial art, and painting, and will have completed a survey of the history of the fine arts. At this time he will, together with his adviser, determine for himself the course of study he will follow for the remaining two years. Thus the freshman and sophomore years constitute an extensive program and the junior and senior years a more intensive plan. This division of the undergraduate degree program is based on the belief that the students, having been well grounded during the first two years of their college careers, are sufficiently mature to help direct the course through their own areas of specialization.

The Bachelor of Fine Arts degree in the School of Painting and Allied Arts requires a minimum of 34 semester hours of work in the School, including four semesters of Drawing and Design (Art 1, 2, 101, 102) and one semester each of Elementary Sculpture (Art 21) and Figure Drawing (Art 28). Architectural majors are a partial exception to this stipulation because of the demands of their schedules. The minor requirement for the B.F.A. degree is met with 18 semester hours of general courses in the fine arts.

Six hours of English beyond the University College requirement, or Gen. Studies 7, 8, Great Books, are to be completed by candidates for the B.F.A. degree.

Those students desiring mastery of the field of Painting, Sculpture, Printmaking, or Ceramics, will find little difficulty in planning a program in accordance with their personal objectives as they relate to the demands of the field involved.

Possible fields of specialization, beyond the sophomore year, would include the general field of design or concentration in Advertising Design, Fashion Design, Industrial Design, or Interior Design. Programs leading to the realization of competence in these areas can be arranged to suit the demands of the individual student in conference with his adviser.

In every case, entrance upon a plan of study beyond the sophomore level involves a decision on the part of the student regarding his future role in the field of art. For this reason, each student is advised to make the most of the basic program outlined below in order that it may provide a means by which he will be better prepared to enter his chosen field.

Freshman Program

First Semester	Hours	Second Semester	Hours
Art 1—Drawing and Design -----	3	Art 2—Drawing and Design -----	3
Art 21*—Elementary Sculpture -----	2	Art 23*—Figure Drawing -----	2
F. A. 17—Introduction to the Fine Arts	3	F. A. 18—Introduction to the Fine Arts	3
U. C. requirements -----	8	U. C. requirements -----	8
	<hr/> 16		<hr/> 16

Sophomore Program

Art 101—Drawing and Design -----	3	Art 102—Drawing and Design -----	3
F. A. 121—History of Painting & Sculpture -----	3	F. A. 122—History of Painting & Sculpture -----	3
Art 128—Advanced Figure Drawing -----	3	Art 111—Drawing Workshop -----	2
Art 113—Lettering -----	3	Art 118—Watercolor -----	3
Electives -----	5	Electives -----	5
	<hr/> 17		<hr/> 16

MAJOR IN ARCHITECTURE

Candidates for the Bachelor of Fine Arts degree may elect architecture as a major within the School of Painting and Allied Arts. A curriculum has been designed to provide an over-all knowledge of the subject supported by a study of the liberal arts and related fine arts. Students upon completing the architectural curriculum, should be prepared for positions as architectural draftsmen and assistants in architects' offices, where they may gain practical experience usually required by state boards. Certain students with outstanding skill should plan, upon receiving the B.F.A. degree, to pursue graduate study at one of the accredited schools of architecture.

For the student who chooses, upon graduation, to enter fields closely allied to architecture and building, opportunities exist in the design, manufacture, distribution, and installation of the materials of architecture. A developed, imaginative power and a structural sense are desirable attributes for work in industrial design and in the design and construction of display features and structures.

*May be taken either semester.

Freshman Program			
First Semester		Second Semester	
	Hours		Hours
Art 1—Drawing and Design	3	Art 2—Drawing and Design	3
F. A. 17—Introduction to the Fine Arts	3	F. A. 18—Introduction to the Fine Arts	3
Arch. 55—Graphics	2	Arch. 56—Graphics	2
Math. 3—Intermediate Algebra	3	Math. 14—Trigonometry	3
U. C. requirements	4	U. C. requirements	5
	15		16

Sophomore Program			
Phys. 5—Introduction to Physics	4	Phys. 6—Introduction to Physics	4
Arch. 101—Architectural Design	2	Arch. 102—Architectural Design	2
Math. 16—Analytical Geometry	3	Arch. 103—Architectural Theory	3
and Calculus	5	English	3
English	3	C.E. 10—Plane Surveying	3
Elective	2	Elective	2
	16		17

Junior Program			
Arch. 155—Architectural Design	5	Arch. 156—Architectural Design	5
Arch. 179—Materials	3	Arch. 183—Equipment	3
Arch. 281—Construction	3	Arch. 282—Construction	3
F. A. 175—History of Architecture	3	F. A. 176—History of Architecture	3
Arch. 105—Rendering	2	Arch. 106—Rendering	2
	16		16

Senior Program			
Arch. 285—Senior Design	5	Arch. 286—Senior Design	5
Arch. 284—Working Drawings	2	Arch. 375—History of Architecture	2
F. A. minor	3	in United States	2
Electives	6	F. A. minor	3
	16	Electives	6
			16

MAJOR IN ART EDUCATION

The program below is designed for those who wish certification as teachers in the public schools while completing requirements for the Bachelor of Fine Arts degree. All required courses are specified and should be taken as listed. Substitutions may be made only after consultation with an adviser.

Freshman Program			
First Semester		Second Semester	
	Hours		Hours
Art 1—Drawing and Design	3	Art 2—Drawing and Design	3
Art 28*—Figure Drawing	2	Art 21*—Elementary Sculpture	2
F. A. 17—Introduction to the Fine Arts	3	F. A. 18—Introduction to the Fine Arts	3
Psych. 1—General Psychology	3	Eng. 4—English Composition	3
Eng. 3—English Composition	3	Physical Education	1
Physical Education	1	Electives	4
	15		16

Sophomore Program			
Psych. 5—Educational Psychology	3	Ed. 130—Secondary Education	3
Art 101—Drawing and Design	3	Art 102—Drawing and Design	3
Art 103—Representation	3	Art 123—Jewelry	2
Art 113—Lettering	3	Art 137—Fashion Design	2
F. A. 121—History of Painting & Sculpture	3	F. A. 122—History of Painting & Sculpture	3
Eng. 101—Sophomore English Literature	3	Eng. 102—Sophomore English Literature	3
	18		16

Junior Program			
Art 115—Ceramics	3	Art 118—Watercolor	3
Art 111—Drawing Workshop	2	Art 120—Textile Design	3
Art 240—Design Applied to Materials	2	Art 128—Advanced Figure Drawing	3
Art 271—Interior Design	3	Ed. 228—Principles of Teaching	3
F. A. Minor	3	F. A. Minor	3
Electives	3	Electives	3
	16		18

*May be taken either semester.

Senior Program**

Ed. 272—Student Teaching in the Elementary School -----	3	Art 260—Teaching of Art -----	3
Ed. 281—Student Teaching in the Secondary School -----	4	Art 341—Painting (Advanced) -----	2
Art 205—Painting -----	2	Art 309—Prints -----	3
Electives -----	6	Electives -----	7
	<hr/> 15		<hr/> 15

MAJOR IN PHOTOGRAPHY

Candidates for the Bachelor of Fine Arts degree electing photography as a field of concentration follow the regular sequence of photography courses during their freshman and sophomore years with advanced study in commercial and illustrative photography and portraiture.

In addition to a specialized understanding of photographic techniques and practices, a general education in contributing fields is desirable. The successful photographer must appreciate the ideas and interests of those with whom he deals.

A planned course of study should include courses in art history, design and drawing for technical information contributing directly to the major interest. From the general educational field, courses in journalism, commerce, and the sciences should be chosen to fit individual needs.

Prospective photography majors should contact a staff member before registration and follow the program below as closely as possible.

Freshman Program

First Semester	Hours	Second Semester	Hours
Art 1—Drawing and Design -----	3	Art 2—Drawing and Design -----	3
Photog. 77—Basic -----	3	Photog. 78—Basic -----	3
F. A. 17—Introduction to the Fine Arts	3	F. A. 18—Introduction to the Fine Arts	3
U. C. requirements -----	7	U. C. requirements -----	7
	<hr/> 16		<hr/> 16

Sophomore Program

Photog. 145—Workshop in Photography	3	Photog. 145—Workshop in Photography	3
Photog. 143—Photographic Processes	3	Photog. 144—Photographic Processes	3
F. A. 121—History of Painting & Sculpture -----	3	F. A. 122—History of Painting & Sculpture -----	3
Art 101—Drawing and Design -----	3	Art 102—Drawing and Design -----	3
Electives -----	5	Electives -----	5
	<hr/> 17		<hr/> 17

Junior Program

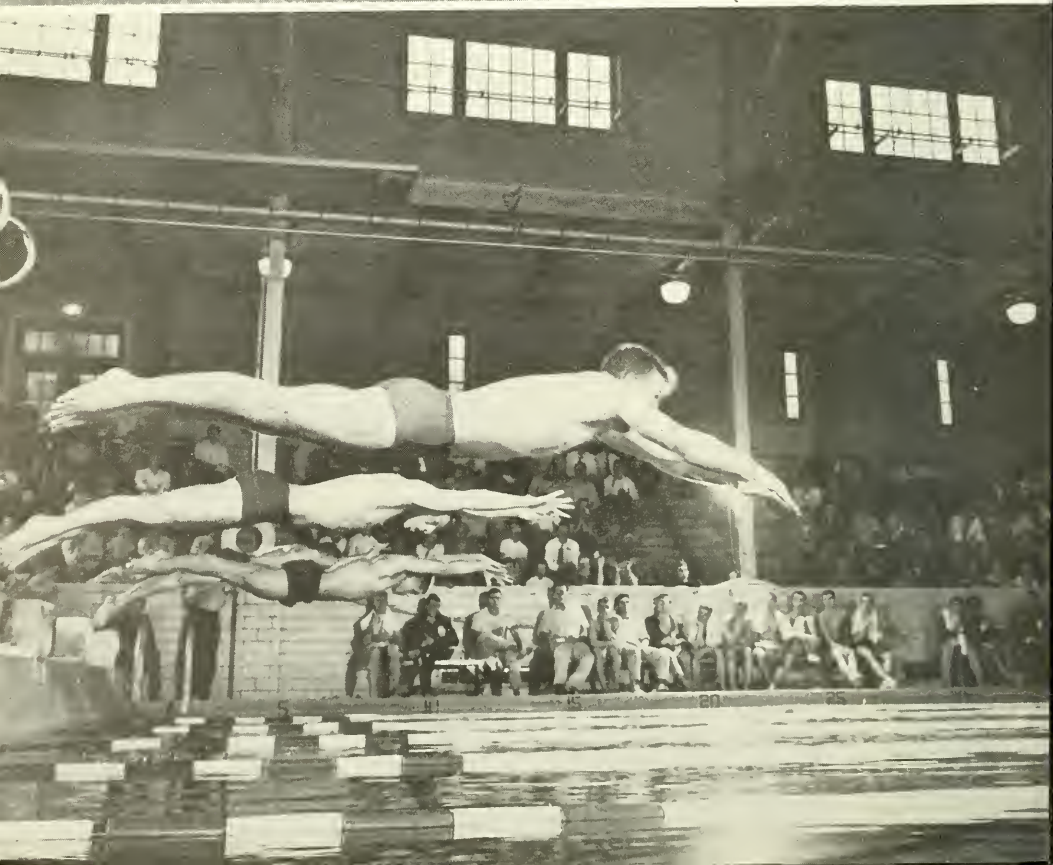
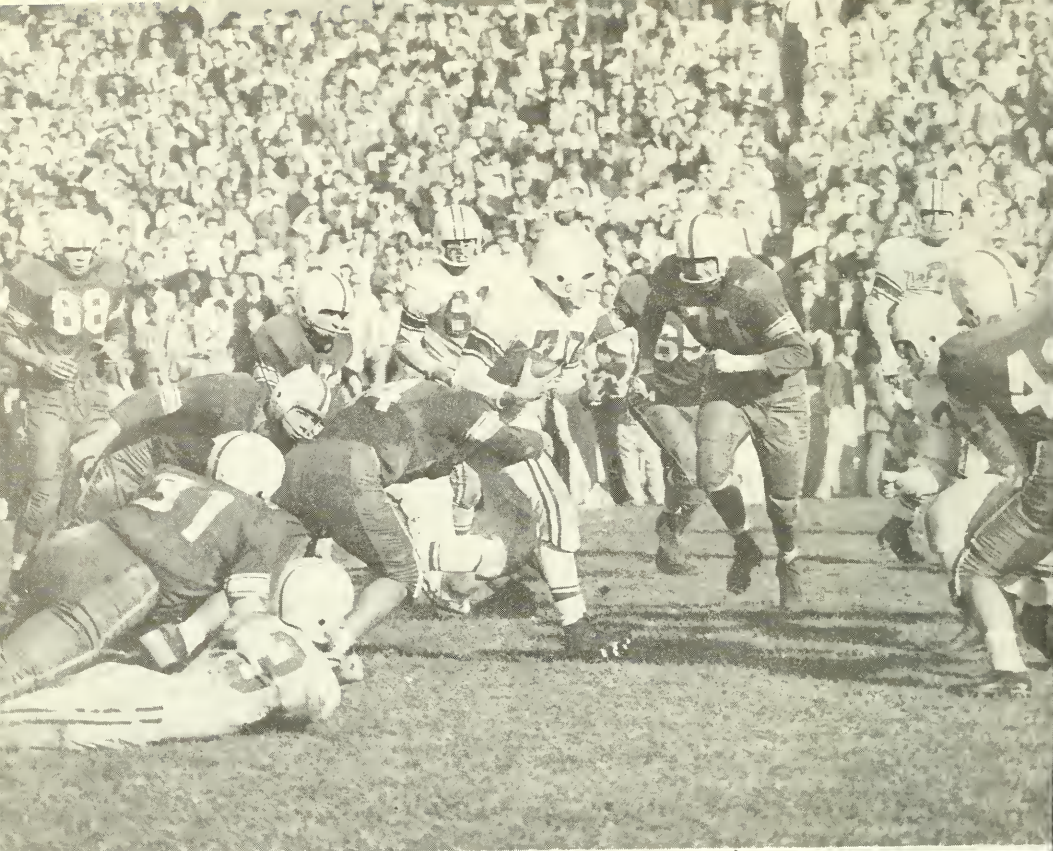
Photog. 277—Portraiture -----	3	Photog. 278—Portraiture -----	3
Fine arts minor -----	3	Photog. 381—Problems in Photography	3
Electives -----	10	Fine Arts minor -----	3
	<hr/> 16	Electives -----	7
			<hr/> 16

Senior Program

Photog. 379—Commercial and Illustrative Photography -----	3	Photog. 380—Commercial and Illustrative Photography -----	3
Photog. 381—Problems in Photography	3	Photog. 381—Problems in Photography	3
Electives -----	7	Electives -----	7
	<hr/> 13		<hr/> 13

**Each 15 hour block may be taken either semester.





THE GRADUATE COLLEGE

DONALD R. CLIPPINGER

DEAN

Accounting

Art

Bacteriology

Business Law
(minor work only)

Botany

Chemistry

Classical Languages
(minor work only)

Commerce and Business

Dramatic Art

Economics

Education and School
Administration

Engineering: Civil, Electrical,
and Mechanical

English

Finance

Fine Arts

Geography
(minor work only)

Geology

German

Government

Guidance-Counseling

History

Home Economics

Human Relations

Industrial Arts

Journalism

Management

Mathematics

Music

Painting and Allied Arts

Philosophy

Photography

Physical Education
and Athletics

Physics

Psychology

Public Address

Radio-Television

Romance Languages

Sociology

Speech and
Hearing Therapy

Statistics

Zoology

THE GRADUATE COLLEGE

The graduate program at Ohio University provides advanced professional training in the area of a student's field of specialization and affords opportunities for the conduct of research and special investigations in these same areas. The program of graduate study should become an initiation into methods of intensive study and research in some selected area of knowledge. It is the objective of the Graduate College to provide its students with a high degree of professional competence.

The Graduate College confers the degree of Master of Arts, Master of Education, Master of Science, Master of Fine Arts, or Master of Business Administration.

The degree of Doctor of Philosophy is granted in certain selected areas of study in the University. At present these are Chemistry, Education, including Administration and Guidance-Counseling, Physics, Public Address, and Speech and Hearing Therapy. Detailed information on these programs may be found in the Graduate College bulletin.

ADMISSION. Students holding a bachelor's degree from an accredited college or university who have attained an undergraduate scholastic point-hour ratio of 2.5 or better on hours attempted, and preferably a 3.0 (B) in the area of the proposed major, may be admitted and granted *regular status* in the Graduate College. Further supporting evidence of the student's ability in the form of the Graduate Record Examination or other college ability tests and letters of recommendation may be requested.

Students holding a bachelor's degree from unaccredited institutions or persons whose undergraduate preparation is deficient will be required to supplement their undergraduate record with a satisfactory score on an acceptable standard college ability test.*

Students with a master's degree will be admitted to graduate study for the doctorate with the amount of graduate credit accepted, by transfer, subject to review and recommendation by the graduate committee of the department concerned.

All correspondence pertaining to the admission of a student to the Graduate College should be addressed to the Graduate College, Ohio University, Athens, Ohio.

Students are accepted for admission in advance of the beginning of each of the semesters of the regular year and at the beginning of each term of the summer session.

*Information regarding these examinations may be had at the office of the Director of Admissions or the office of the Supervisor of Testing Service. While it is not required except as indicated above, applicants for admission may submit their scores on the Graduate Record Examination as valuable evidence of fitness for admission. The Graduate Record Examination is a test of general intellectual ability. Those who have taken this test are urged to have the Graduate Record Office report their scores to the Director of Admissions, Ohio University. Examinations will be given in January, April, July, and November. Further information about the Graduate Record Examination may be obtained by writing to the Educational Testing Service, P. O. Box 592, Princeton, New Jersey. Applicants in the West Coast region should write to the Educational Testing Service, P. O. Box 27896, Los Angeles 27, California.

Application for admission consists of the presentation of an application blank filled in by the applicant, an official transcript from each college attended, two small photographs of the applicant, vaccination and immunization blanks certified by a physician, and a medical history blank filled in by the applicant and completed by a physician. The vaccination, immunization, and medical history blanks are not required if a student plans to attend the summer session *only* as a special student.

A graduate student who is attending another university may be admitted for the summer session as a special transient student by presenting an official statement of good standing from the university in which he is enrolled. Admission for the summer session only as a special student does not constitute admission to the regular academic year.

Admission to the Graduate College does not imply admission to candidacy for a degree.

For information concerning application for living quarters, write the Director of Housing, Ohio University, Athens, Ohio.

CLASSIFICATIONS OF STUDENTS ADMITTED TO GRADUATE STUDY:

1. Those students approved by the major department and the Dean of the Graduate College for unqualified admission to graduate study are granted *regular status*.
2. Students admitted under the provisions of *special status* may include those who wish to pursue course work with no intention of qualifying for a degree, those who are transient registrants, and those with some deficiency in entrance requirements. Students in this last category may achieve regular status after the satisfactory completion of a prescribed program of study to remove deficiencies.

SENIORS AND GRADUATE STUDY. A student who is within nine hours of completing all requirements for the bachelor's degree at Ohio University may take graduate courses, provided he otherwise meets the requirements of admission and secures the written recommendation from the dean of his college, the chairman of his major department, and approval of the Dean of the Graduate College. Request for the above privilege must be made in advance of registration through the Graduate College office.

REGISTRATION AND ASSIGNMENT TO ADVISERS. A student who qualifies for admission to the Graduate College receives a permit to register. He then confers with the Dean of the Graduate College concerning the general nature of his interests in graduate study and is directed to the department chairman or chairman of the graduate committee who has supervision over the subject matter in the area of major interest. The chairman, together with the Dean of the Graduate College, will assign

a faculty adviser in the major and minor fields to counsel with the graduate student and prepare the outline of graduate study. The outline is returned to the Graduate College office where it is filed and becomes a part of the record of the graduate student.

PROGRAM OF STUDY AND STUDENT LOAD. A student's program of study is made up of two parts, a major and a minor, unless a program otherwise arranged is approved by the adviser and the graduate committee of the department. Since graduate work implies advanced study and some degree of specialization, a prescribed amount of undergraduate preparation in a subject or field of study is presupposed before graduate study may be undertaken in that subject or field. Naturally, the undergraduate preparation required to begin a graduate major is greater than that required to begin a graduate minor. In most departments a minimum of 18 semester hours of undergraduate work is required to begin a graduate major while 6 to 12 semester hours is required for the minor.

A master's program of graduate study without the thesis requirement is now available to graduates preparing for educational work in the public schools. Students desiring the Master of Education degree may have a program of study arranged with or without thesis, provided the program is approved by the committee on graduate study in the major department.

The full-time load for a graduate student is 16 credit hours per semester (12 hours in the summer session of ten weeks). A student wishing to register for extra hours must secure approval of his major adviser and the Dean of the Graduate College.

STANDARDS OF WORK. All work submitted for graduate credit shall be of high quality. *The minimum standard acceptable is a point-hour ratio of 3.0 in all courses attempted in fields chosen to meet degree requirements, with no grade below C, and not more than 20 per cent of the work accepted with a grade of C.* A minimum average of B is required in all courses taken at Ohio University for application on the degree requirements.

RESIDENCE AND CREDIT. At least 32 semester hours of credit are required for the master's degree. A maximum of eight semester hours of graduate credit with A or B grades may be accepted by transfer from approved institutions which offer the master's degree, provided the transferred course work is acceptable to the student's adviser and is *not more than five years old.* Credit for courses taken by correspondence is not accepted toward the degree. *A maximum of 12 semester hours taken in the Branches is accepted toward the master's degree, provided the courses are conducted by instructors who regularly teach them on the campus.*

A minimum of six semesters of study and research beyond the bachelor's degree is needed to meet the requirements of the doctor's degree. At least two semesters of the doctoral program of study shall

be in continuous residence at Ohio University, preferably the last semesters of study for the degree. The continuous residence requirement applies to the period of graduate study following the completion of the master's degree or the equivalent of 32 semester hours.

The amount of credit accepted by transfer from another university toward the doctorate will be determined by the graduate committee of the department concerned and the Dean of the Graduate College.

REQUIREMENTS FOR THE DEGREES. Detailed information on specific requirements involving admission to candidacy, comprehensive examinations, preparation of the thesis or dissertation, time limit for meeting requirements, and other details of the graduate programs are described in the Bulletin and other publications of the Graduate College. For more explicit information address the Dean of the Graduate College.

GRADUATE ASSISTANTSHIPS; TEACHING AND RESEARCH FELLOWSHIPS. A number of graduate assistantships and research fellowships are available in the Graduate College of Ohio University. Persons receiving these appointments are selected on a basis of merit from students who have received the baccalaureate degree from approved institutions and who wish to pursue work leading to the master's degree.

Graduate assistantships provide a stipend of \$1800 to \$2000 for the academic year of two semesters and waiver of all fees (resident and non-resident) with the exception of a \$35 incidental fee. A matriculation fee of \$10 is charged all students on first entrance to Ohio University. The graduate assistant is required to give approximately 18 hours (6 to 8 contact hours of instruction) of service weekly to the University, and is permitted to carry 9 to 12 hours of graduate work, the hours in excess of 9 being subject to the approval of the Dean of the Graduate College and the chairman of the department in which the student is serving as an assistant.

The general registration fee and laboratory fees will also be waived during the summer sessions directly preceding and following the period of a graduate assistant's appointment.

A graduate assistant continuing study for a second year is eligible for a second appointment to the assistantship. The assistant who has completed two semesters of service with an exceptionally good record may, on the recommendation of his department, be reappointed for a second year at an increased stipend with waiver of the fees as noted above. Reapplication must be made annually.

Graduate assistantships are usually available to qualified students in the following fields: accounting, bacteriology, botany, business education, chemistry, dramatic art and speech, economics, education, civil, electrical, and mechanical engineering, English, finance, fine arts, French, geology, government, history, home economics (including nursery school), human relations, industrial arts, journalism, management, mathematics, music, philosophy, photography, physical education, physics, psychology, sociology, Spanish and zoology.

Teaching fellowships are granted to selected students in advanced graduate study and provide a stipend of \$2000 to \$3000 with the usual waiver of fees.

Research fellowships are established on the basis of grants-in-aid to the University for the conduct of research. Appointees to these fellowships must show exceptional aptitude for research. Their obligation involves the promotion of the research program of the department through which the grant is made. Fellows have no instructional service to perform and may normally carry 9 to 12 semester hours of work toward their graduate program. In general, the stipend and waiver of fees will be the same as that of an assistantship.

APPOINTMENTS IN PERSONNEL WORK. Positions are open annually for graduate assistants who will be appointed to assist the personnel deans. These assistants may pursue graduate work in any area of study but will find this experience especially valuable in training for teaching, counseling, student or industrial personnel service, and applications of the various social sciences. Stipend and other terms are the same as those of other graduate assistants.

Graduate appointments are also available to married men, with no children, as heads of residence in the dormitories for men. The compensation for this service is a furnished apartment and board for the man and wife, a stipend of \$900 per year plus the waiver of fees as indicated for the graduate assistant. The head of residence will supervise the functions of the dormitory and coordinate the responsibilities of graduate assistants assigned to work with him. He is limited to nine hours of course work per semester.

Applications for all graduate appointments must be filed with the Dean of the Graduate College by March 1. Application blanks may be obtained from the office of the Graduate College

SCHOLARSHIPS. University scholarships are available to college graduates who have maintained a high scholastic record. These permit full-time study and pay the basic registration (resident or non-resident) fee. Information may be obtained by addressing the Director of Student Financial Aids, Ohio University, Athens, Ohio.

THE DIVISIONS

THE BRANCHES

ALBERT C. GUBITZ, DEAN

THE DIVISION OF PHYSICAL EDUCATION AND ATHLETICS

CARROLL C. WIDDOES, DIRECTOR

W. J. TRAUTWEIN, ASSOCIATE DIRECTOR

CARL T. NESSLEY, ASSISTANT DIRECTOR

THE RESERVE OFFICERS' TRAINING CORPS

JAMES R. PATRICK, COORDINATOR

JOHN D. LUCAS, P.M.S.T.

CALEB POWERS MOBERLY, P.A.S.

THE UNIVERSITY EXTENSION DIVISION

FREDERICK H. McKELVEY, DIRECTOR

THE SUMMER SESSION

FREDERICK H. McKELVEY, DIRECTOR

THE BRANCHES

Branches of Ohio University operate in Chillicothe, Ironton, Lancaster, Martins Ferry, Portsmouth, and Zanesville. Work at the freshman and sophomore levels is offered. Branches were originally established in 1946 in Chillicothe, Portsmouth, and Zanesville to accommodate the large number of World War II veterans desiring to enter college. They continued to develop and are now a permanent and significant part of the total University program. The branches in Lancaster and Ironton were established in 1956. The Martins Ferry Branch opened in 1957.

All qualified high school graduates and adults are eligible to take work in the branches and may earn up to two years of credit in the fields of commerce, arts and sciences, and education. One year of credit may be earned in engineering and fine arts and a two-year technical institute curriculum at the Zanesville Branch allows interested high school graduates and adults an opportunity to train as engineering technicians. A limited amount of graduate work is also offered.

Work offered in the branches is like that given on the main campus, with students receiving full residence credit. Many students after the second year transfer to the main campus or to other colleges and universities to complete the baccalaureate degree.

The cadet teacher program is featured in each branch and makes possible the completion of all requirements for the cadet teaching certificate. Twenty scholarships, ten freshmen and ten sophomore, are awarded annually in each branch to students in this program. Locally sponsored scholarships are also available.

The branch program affords students the opportunity to pursue a college education while living at home and working full time or part time.

THE DIVISION OF PHYSICAL EDUCATION AND ATHLETICS

For nearly a century colleges and universities have recognized a responsibility for programs of student health practices, required physical education, recreational activities, intramural sports, or intercollegiate athletics. Ohio University has kept abreast of this educational movement.

One problem which is particularly significant for technically trained and professional people arises out of a developing conflict between the forces of a commercial and industrial civilization and the biological needs of growing, developing human organisms. Modern man faces the necessity of preserving the achievements of his evolution. Urbanization and mechanical progress have taken away from large segments

of our population natural forms of activity which developed organic structure, muscular tonus, and coordination. Formerly one's developmental activities, if he were to survive, were inherent in the driving necessities of his daily life. Rapid changes in our culture and patterns of living have necessitated substitutions of sports, hobbies, recreational skills, and methods of adaptation to a more sedentary life with larger portions of leisure time. This was not an acute problem even two generations ago. It is important in these times, and it will become increasingly imperative in the future that educational programs be directed to this problem in our society.

Participation in selected physical activities which are harmonious with one's ability and desires contributes to general health, endurance, physical skill, mental and emotional poise, and to interesting recreational forms. These activities should be engaged in throughout life in order to develop and maintain an efficient physiology. When students ignore this phase of their education, they should understand that they are closing doors against many interesting and beneficial activities which would contribute to better living. In addition to purely physical development, sports and athletic programs are rich with possibilities for the acquiring of social intelligence, sportsmanship, recreational skills, and lasting friendships. These qualities fit into the American way of living.

With this in mind the Division of Physical Education and Athletics is pursuing a broad educational program which is designed to fit the diversified interests of all men and women at the University. The functions of the Division fall into the following categories:

1. *Close coordination with the program of health services directed by physicians and nurses at the Hudson Health Center.*
2. *Required physical education courses for men and women.*

(a) The physical education program for men includes dual, individual, and team sports, aquatics, combatives, gymnastics, and rhythmic.

Two semesters of physical education are required. Near the close of each semester physical proficiency and sports tests may be taken and, if prescribed standards are met, this requirement may be reduced.

(b) The two-semester required physical education program for women is on a basis of choice selected from four areas: sports and games, swimming, rhythmic, and outing activities.

For additional information on (a) and (b) refer to "Physical Education" in the Graduation section of the catalog.

3. *Adapted Activities.*

Men and women who for any medical reason are unable to participate in the regular program are assigned with medical permission to a class where they will be directed in activities adapted to their special needs.

4. *Intercollegiate Athletics.*

Ohio University is a charter member of the Mid-American Conference which is composed of seven prominent universities in the middle west. The other members are Miami, Toledo, Western Michigan, Kent, Bowling Green, and Marshall.

In the administration, financing, organization and management of the intercollegiate athletic program, the Division of Physical Education and Athletics adheres to the policies of the National Collegiate Athletic Association. All students are encouraged and welcomed to try out for any team of their choice. Ohio University teams go into competition thoroughly coached and trained to play hard and clean athletics. This training under excellent leadership makes it a privilege and an honor to participate on athletic teams at the University.

Medical attention for athletic squads is under the direction of a team physician. He has at his disposal the personnel and facilities of a modern university hospital, and is aided by a qualified and experienced trainer.

University teams are organized in the following sports: football, basketball, baseball, track, wrestling, cross country, golf, soccer, tennis, swimming, riflery, and ice hockey. The ice hockey team is a member of the Ohio Intercollegiate Hockey Association.

For women, intercollegiate competition is scheduled in field hockey, basketball, and tennis, in addition to various types of sports days.

5. *Intramural sports and recreational activities.*

The Division offers an extensive program of intramural sports for men and women. Students are encouraged to make use of available facilities in their leisure time. This provides a way for students to participate in sports and recreation. Upon request, clubs will be organized in sports or physical recreation activities as facilities and personnel are available.

6. *Major and minor curricula.*

Major and minor curricula are offered for prospective teachers of health education, physical education, athletic coaching, and recreational leadership. By fulfilling the requirements, students who major in the Division of Physical Education and Athletics will apply for the degree, Bachelor of Science in Education.

The Division also offers a program of graduate study leading to the Master's Degree. See Item 7.

A major in physical education and athletics prepares men and women students for the following positions: teacher of physical education in the elementary and secondary schools, teacher of health, playground director, athletic coach, camp counselor, and recreational leader for industrial concerns and municipalities.

All students majoring in physical education and athletics are required to purchase a uniform as prescribed by the Division.

The Division encourages major students to assist with the instruction in men's and women's physical activity classes. This experience is advantageous to a prospective teacher.

A minor in physical education and athletics is the minimum program acceptable to the State Department of Education for the teaching of physical education and the coaching of athletic teams in the schools of Ohio.

A minor in health education will qualify the student to assume health education responsibilities in the elementary and secondary schools.

A minor in recreation will prepare the student for leadership in school, industrial and community recreation, summer playground programs, and outing or camping activities.

The university requirements pertaining to English composition, physical education, and speech, which are not indicated in the curricula below, are outlined in the University College section of the catalog.

The following courses constitute a teaching major in physical education and athletics:

MEN

Freshman Program			
First Semester	Hours	Second Semester	Hours
Zool. 3—Principles of Zoology	3	P. E. 66—Program Skills	2
P. E. 65—Program Skills	2		
Sophomore Program			
P. E. 102—Personal and Community Health	3	Ed. 103—Studies of Children	3
P. E. 121—Program Skills	2	P. E. 122—Program Skills	2
P. E. 127—First Aid	2	Zool. 134—Anatomy, Kinesiology, and Physiology	4
Zool. 133—Anatomy, Kinesiology, and Physiology	4	P. E. 150—Recreation	3
Junior Program			
P. E. 233—Theory of Adapted Activities	2	P. E. 135—Program Techniques	1
P. E. 267—Athletic Coaching	2-4	P. E. 268—Athletic Coaching	2-4
Psych. 310—Behavior Pathology or P. E. 395—School Health Problems or Psych. 110—Adjustment or P. E. 352—Physical Diagnosis	3	P. E. 269—Teaching of Health	3
Senior Program			
P. E. 304—History and Principles	3	P. E. 306—Organization and Administration	2

WOMEN

Freshman Program			
First Semester	Hours	Second Semester	Hours
P. E. 1—Hockey, Soccer	1	P. E. 4—Intermediate Swimming	1
P. E. 7—Beginning Modern Dance	1	P. E. 8—Intermediate Modern Dance	1
Zool. 3—Principles of Zoology	3		
Sophomore Program			
P. E. 121—Program Skills	2	P. E. 122—Program Skills	2
P. E. 127—First Aid	2	Zool. 134—Anatomy, Kinesiology, and Physiology	4
P. E. 150—Recreation	3	P. E. 102—Personal and Community Health	3
Zool. 133—Anatomy, Kinesiology, and Physiology	4	P. E. 17—Tennis	1

WOMEN

Junior Program

P. E. 131—Mass Games -----	1	P. E. 233—Theory of Adapted Activities 2	
P. E. 272—Teaching Methods -----	2	H. E. 161—Home Nursing and Family Health (2) or	
P. E. 269—Teaching of Health -----	3	Psych. 310—Behavior Pathology (3) or	
Ed. 103—Studies of Children -----	3	P. E. 395—School Health Problems (3) 2-3	
P. E. 274—Teaching of Rhythms -----	1	P. E. 275—Teaching of Rhythms -----	1
		P. E. 273—Teaching Methods -----	2

Senior Program

P. E. 304—History and Principles of Physical Education -----	3	P. E. 306—Organization and Administration of Physical Education -----	2
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The following courses are suggested to meet the minimum of 24 semester hours required by the State Department of Education for a teaching minor in health and physical education. Hours

1. Principles and Organization -----	5
--------------------------------------	---

MEN AND WOMEN

- P. E. 304—History and Principles of Physical Education (3).
P. E. 306—Organization and Administration of Physical Education (2).

2. Theory and Practice -----	4
------------------------------	---

MEN

P. E. 65—Program Skills (2)	
P. E. 66—Program Skills (2)	
P. E. 121—Program Skills (2)	
P. E. 122—Program Skills (2)	

WOMEN

P. E. 7—Beginning Modern Dance (1)	
P. E. 8—Intermediate Modern Dance (1)	
P. E. 15—Folk and National Dancing (1)	
P. E. 121, 122—Program Skills (2-2)	
P. E. 131—Mass Games (1)	

3. Theory and Coaching -----	4
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MEN

P. E. 139—Athletic Officiating (2)	
P. E. 267—Athletic Coaching (2-4)	
P. E. 131—Intramural Sports (2)	
P. E. 268—Athletic Coaching (2-4)	

WOMEN

P. E. 272—Teaching Methods (2)	
P. E. 273—Teaching Methods (2)	
P. E. 139 or 140—Athletic Officiating (1)	

4. Health Education -----	7-8
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MEN AND WOMEN

- P. E. 102—Personal and Community Health (3)
P. E. 269—Teaching of Health (3)
Elect from following (2-3):
P. E. 127—First Aid (2)
P. E. 128—Physical Therapy (2)
P. E. 142—Camp Leadership (2)
Ind. A. 5—Driver Education(1)

5. Biological Life Sciences -----	6
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The following courses constitute a state certified minor in health education:

MEN AND WOMEN

Speech 1—Fundamentals of Speech -----	1
P. E. 102—Personal and Community Health -----	3
Ed. 103—Studies of Children -----	3
P. E. 127—First Aid -----	2
Zool. 133-134—Anatomy, Kinesiology, and Physiology -----	8
P. E. 269—Teaching of Health -----	3
Psych. 310—Behavior Pathology -----	3
P. E. 395—School Health Problems -----	3
	26

The following courses constitute a minor in recreation leadership:

MEN AND WOMEN

Soc. 101—Principles of Sociology	3
Speech 3—Public Speaking	2
Ind. A. 9—Craft and Hobby Work	2
P. E. 15—Folk and National Dancing	1
P. E. (65-66)—(121-122) Program Skills	2
P. E. 127—First Aid	2
P. E. 150—Recreation (Social and party games, low cost crafts, square dance, theories of play, institutional recreation) ..	3
P. E. 349—Community Recreation (organization & administration, finance, facilities, history of, play ground supervision)	3
	<hr/> 18

Elective courses:

P. E. 7—Beginning Modern Dance	1
P. E. 8—Intermediate Modern Dance	1
P. E. (65-66)—(121-122) Program Skills	2-6
Dram. A. 105—Play Production	3
P. E. 114—Camp Craft	1
P. E. 118—Life Saving and Water Safety	1
P. E. 142—Camp Leadership	2
P. E. 153—Nature and Function of Play	2
P.E. 274, 275—Teaching of Rhythmic Activities	2

Elect from the above to total a minimum of24 hours

7. *The Master's Degree in Physical Education.*

The graduate student in physical education has optional plans of study. Plan A includes 32 semester hours of course work including a thesis. Plan B is 34 semester hours of course work, including a 3 hour research seminar.

PLAN A

A graduate student may work toward either the Master of Science or Master of Education in Physical Education, depending on his background of preparation and program of graduate study.

Students who elect graduate study in physical education and the related subjects of health education and recreation may combine these interests into a major of 12 to 16 course hours and a thesis. One or two other areas will be associated with this major to complete 32 course hours including the thesis.

Associated areas or minors may be selected from related graduate course offerings in the University with the understanding that a minimum of 6 or more hours of prerequisite study are usually required before graduate study is permitted.

The following minors are commonly selected: educational administration, counseling and guidance, history, human relations, social science, biological science, psychology, or industrial arts. The student, however, is in no way limited to these areas. The student electing to follow Plan A leading to the M.S. or M.Ed. degree will comply with the requirements outlined in the Graduate College Bulletin.

PLAN B

Plan B permits the graduate student to work towards the Master of Education degree. This plan is available under the same requirements as Plan A, except for the following provisions:

1. The student must be approved for the program by the committee on graduate study in physical education. This approval is given only if, after a review of the student's educational aims and interests, the program seems to fit his needs.
2. The student will complete a minimum of 34 semester hours of credit for the degree. Within this program 16 to 20 course hours are taken in his major field. One or two other areas will be associated with this major to complete the required hours.
3. The course, Introduction to Graduate Study (Ed. 488), will be required, preferably in the first term of residence.
4. A seminar research course is required. The student will develop a problem in health education, physical education, recreation, athletics, or a related area. The written report of the problem must conform with the format as recommended by the Graduate College for research writing.
5. The student must pass a written comprehensive examination based on the courses taken in his major field of study. This examination is taken as directed by the major department approximately four weeks prior to the conferring of the degree.

THE RESERVE OFFICERS' TRAINING CORPS DIVISION

GENERAL. Ohio University maintains a Senior Division, Reserve Officers' Training Corps, consisting of two coequal departments:

THE DEPARTMENT OF MILITARY SCIENCE AND TACTICS

THE DEPARTMENT OF AIR SCIENCE

In 1935, the Board of Trustees entered into an agreement with the Government for the establishment of a voluntary ROTC unit which, during subsequent years, has been developed and expanded into the two coequal departments indicated above. A coordinator appointed by the President of the University coordinates affairs of the ROTC and acts as liaison officer between these departments and the university administration.

Each department chairman is the senior officer on duty in the department and is referred to either as the Professor of Military Science and Tactics (P.M.S.T.) or the Professor of Air Science (P.A.S.). Other officers are assigned as assistant professors, and enlisted men are assigned as instructors.

Each department offers a two-year basic course and a two-year advanced course. Enrollment in either course is elective and may be pursued as a course for elective credits for a degree. However, once either course is elected by a student, it becomes a prerequisite for graduation, unless he is relieved from this obligation by the appropriate ROTC Department.

MISSION. The mission of university-level Reserve Officer's Training is to select and train college students so that they may receive commissions as junior officers in the Regular and Reserve components.

ENTRANCE REQUIREMENTS. In general, any physically qualified male student, who is a citizen of the United States and is more than 14 years of age, yet has not reached his twenty-third birthday is eligible for enrollment in the basic course. Certain exceptions to age requirements may be made in the case of veterans.

Applicants for the advanced course must have completed or received credit for the basic course, must meet current selection criteria and must not have reached their twenty-fifth birthday at time of enrollment in the advanced course.

It is necessary for nonveteran students desiring to complete the ROTC course to register for ROTC when they first enter college because four years are required to complete the course.

DRAFT DEFERMENTS. The Armed Forces are authorized to grant deferments from military service, subject to quota limitations, to students who are pursuing a ROTC course and who maintain a satisfactory scholastic standing in their academic studies.

UNIFORMS AND EQUIPMENT. Textbooks, training equipment, and complete uniforms are issued to all ROTC students without cost. These articles remain the property of the United States Government and must be returned. Each ROTC student is required to make a \$20 deposit to cover loss or damage to issued property. This deposit is refunded when all items have been returned to the military property custodian.

Students entering the advanced course receive without cost a complete officer-type uniform. Upon completion of the advanced course, the student retains this uniform as his own. All students enrolled in the advanced course are paid an allowance of \$0.90 per day. During attendance at summer camp, students receive pay amounting to approximately \$78 per month and other allowances. Thus it is possible for a cadet to receive over \$700 while in the advanced course.

ROTC COURSES. (See "Courses of Instruction" for a detailed description.)

ARMY:

The Army General Military Science program consists of a two-year Basic Course and a two-year Advanced Course. This program, including a summer camp, prepares the individual for a commission in any of the various branches which make up the Army. For example, during recent years Army ROTC graduates of Ohio University have been commissioned in the Adjutant General Corps, Armor, Artillery, Chemical Corps, Finance Corps, Infantry, Medical Service Corps, Ordnance Corps, Quartermaster Corps, and Signal Corps. Assignment to branch will depend on several factors including the needs of the service, the desires of the individual, and his academic background. Every effort will be made to commission Army ROTC graduates in a branch for which they are particularly well fitted by virtue of their college training. From this it may be seen that there are many opportunities available to the student who receives a commission in the Army. Individuals commissioned as a result of their Army ROTC training may be called to active duty for a period of from six months to two years, thus fulfilling their military obligation as required by existing laws. During their senior year, physically qualified individuals may enroll in the Army ROTC Flight Training Program. This qualifies the graduate for the Army Aviation Program once he enters active military duty. Completion of this training qualifies the student in the basic principles of contact flying and to apply for the CAA private pilot's certificate.

AIR FORCE:

The Air Force ROTC course of study is divided into the Basic Course comprising the first two years and the Advanced Course covering the junior year, summer camp, and the senior year. The senior course is designed to provide fundamental training, both personal and professional, which will best enable the cadet possessing a high growth potential to become a well-rounded junior Air Force officer and also to properly motivate him toward an Air Force career. Upon completing the course and being selected for commissioning, he is assigned a military occupation specialty in accordance with his academic training, his desires, and the needs of the Air Force. Cadets have the choice of selecting flying or non-flying active duty at the beginning of their junior year. Those cadets selecting non-flying duty have the opportunity of working in career fields compatible with their college training. Examples of typical Air Force specialty areas are Research and Development, Production Management, Electronics, Personnel, Finance, Accounting, Education, Public Relations, Guided Missiles, Installations, and Maintenance Engineering. In addition to the aforementioned, there are many other positions available in the Air Force to graduates possessing specific academic skills. Those cadets selecting pilot active duty will receive 36½ hours of pilot training in their senior year which may qualify them for a private pilot's license. This flight training is provided by the University as part of the Air Force ROTC program.

COMMISSIONS. Students who have completed the basic course, and certain veterans, are eligible to apply for the advanced course. A student who successfully completes the advanced course and his academic studies leading to a baccalaureate degree may be offered a commission as a second lieutenant in the United States Army Reserve or the United States Air Force Reserve.

Students who have successfully completed the first year of the Army ROTC advanced course and have shown evidence of outstanding achievement in scholarship or extra-curricular activities are eligible for appointment as "distinguished military students" upon recommendation of the President of the University and the P.M.S.T. Distinguished military students are eligible to apply for commissions in the Regular Army. Students will be so appointed upon their graduation from the University.

The Air ROTC has a similar program for selecting distinguished AFROTC students. Such students may apply for Regular Air Force commissions and receive special consideration. All other graduates with Air Force Reserve officer commissions are eligible to apply for Regular Air Force commissions after serving on active duty. ROTC is the major source for procuring Regular Air Force Officers.

SPECIAL SCHOOLING. Under the provisions of the Army and Air Force Civilian School program, Army and Air Force commissioned graduates may apply for graduate study in specialized fields such as engineering, electronics, meteorology, nuclear physics, business administration, economics, educational administration, and psychology. These specialized studies are pursued at selected civilian universities at government expense by the student officer in residence and lead to a master's degree, or in many cases, to the degree of Doctor of Philosophy.

THE UNIVERSITY EXTENSION DIVISION

The University Extension Division offers work in the form of extension classes, correspondence study, and evening school classes on the campus. It is approved by and holds membership in the National University Extension Association.

EXTENSION CLASSES. An instructor will be sent to a community once a week for an extension class provided a sufficient number of persons has agreed upon a course. The number necessary depends upon the distance from the campus. The number and length of class periods are determined by the amount of credit allowed for the course.

CORRESPONDENCE STUDY. Courses in many departments are offered and are taught by members of the regular faculty. These courses appeal to any person who wishes to engage in systematic study during his spare time. They may be studied on a credit basis or a non-credit basis, and registration can be made at any time.

EVENING SCHOOL. Several courses are offered each semester for both credit and non-credit. Credit courses carry residence credit and are open only to qualified adults and high school graduates.

ADMISSION. An extension class student or a correspondence student is not required to present an application for admission to the University. A student under 21 years of age cannot enroll in an extension class or in correspondence study for college credit unless he has fifteen units of high school work earned in an accredited secondary school. A person 21 years of age, or over, however, who lacks the required high school units for college entrance may enroll for college credit in any course if the instructor finds him qualified to carry the course.

To be admitted to Ohio University for correspondence instruction or for extension class instruction does not imply that the student will be admitted later for study in residence. A separate application must be filed with the Director of Admissions for admission to residence study.

CREDIT. In extension classes and in correspondence study combined, a student may earn as much as 25 per cent of the semester hours required for a bachelor's degree, diploma, or certificate.

No credit toward a graduate degree may be earned by the correspondence method.

Students who are employed full time are limited to a registration of six hours each semester.

If a student is currently registered in residence at Ohio University, or at another college or university, he must have the written permission of his dean to enroll in correspondence study.

BLANKS. Applications for correspondence instruction may be secured from the Director of the Extension Division. Registration blanks for extension class instruction may be obtained from the instructor when the class is organized.

Persons interested in any of the opportunities afforded by the Extension Division may obtain additional information by writing to the Director of University Extension, Ohio University, Athens, Ohio.

THE SUMMER SESSION

The Summer Session at Ohio University consists of two five-week terms. It represents a cross section of the total program of the University. Enrollment in the Session in conjunction with the two semesters provides an opportunity for year-round study. A student who enrolls at Ohio University immediately after high school graduation and who attends all summer sessions, may reasonably expect to graduate in three years.

A special bulletin covering the offerings of the Summer Session is available and may be secured by sending a request to the Director of the Summer Session, Ohio University, Athens, Ohio.

COURSES OF INSTRUCTION

Course offerings of the University
grouped and listed alphabetically
according to departments

COURSES OF INSTRUCTION

EXPLANATION

CATALOG NUMBER. The catalog number indicates the student classification for which the course is primarily intended.

1- 99 for Freshmen

100-199 for undergraduates above the freshman level

200-299 for advanced undergraduates (Juniors and Seniors)

300-399 for advanced undergraduates and graduates

400-499 for graduates

In general, an odd number indicates the first semester of a two-semester course; an even number, the second semester. An exception occurs in the numbers used for the teaching techniques courses.

Two numbers at the beginning of a course indicate a two-semester or year course. A *hyphen* between the numbers indicates that the course is a continuous course; that is, the first semester course is a prerequisite for the second semester. A *comma* between the numbers indicates that although the course is a two-semester course, the first semester course is not a prerequisite for the second semester.

CREDIT. Credit for a course is indicated by the number or numbers in parentheses following the course title, and, in case of a year course, is shown for each semester. In a semester course it may be expressed thus: (3), (1 to 3), or (2 or 3); in a year course, (3-3), (3, 3), (1 to 3—1 to 3), or (2 or 3—2 or 3).

A course with one semester hour credit (1) is the equivalent of one recitation or two or more laboratory periods a week throughout a semester.

In a course carrying variable credit the credit may be expressed thus, (1 to 4), indicating that one hour is the minimum and four hours the maximum amount of credit allowed for the course in one semester. A student may enroll for a course with variable credit any number of times and for any number of semester hours, within the semester limit, provided the total registration for the course does not exceed the maximum credit indicated in the course description.

Course prerequisites are indicated at the end of course descriptions following the abbreviation, "Prereq." A student who completes an advanced course may not subsequently enroll in a prerequisite course for credit.

INSTRUCTORS. The instructors in a department are arranged according to seniority of service within the respective ranks as of October, 1959.

FEE. When a course requires a private instructional fee, the amount is stated in the description of the course.

CLASS SCHEDULE. A Schedule of Classes is available each semester from the Registrar.

ACCOUNTING

Professors Ray, Beckert (chairman)
Associate Professors Fenzel, Reininga
Assistant Professors Via, Stewart

75-76. ELEMENTARY ACCOUNTING

(3-3) Beckert, Fenzel, Ray, Reininga,
Stewart, Via

The fundamental principles of accounting theory and practice as they affect corporations, partnerships, and proprietorships.

111. INDUSTRIAL ACCOUNTING

(3) Beckert

A survey course covering basic accounting principles with emphasis on procedures used in accounting for material, labor, and overhead in job-lot and process cost systems. Prereq., not open to students working toward the Bachelor of Science in Commerce or Bachelor of Science in Secretarial Studies degrees. No credit allowed for this course for students who have completed Accounting 75-76.

125-126. INTERMEDIATE ACCOUNTING

(3-3) Beckert, Fenzel

Preparation and analysis of accounting statements; special problems in accounting for current, fixed, and intangible assets, for liabilities, and for corporate net worth; funds and reserves; and investments. Prereq., 76.

175. COST ACCOUNTING

(3) Ray

Manufacturing cost determination under the job-order and process systems. Prereq., 125 or 76 and permission.

217. TAX ACCOUNTING

(2) Reininga, Stewart

Beginning study of Federal income taxes and State taxes for individuals, partnerships, and corporations. Prereq., 125.

261. TEACHING OF BOOKKEEPING AND BASIC BUSINESS

(2) Beckert

Prereq., 125.

275. GOVERNMENTAL AND INSTITUTIONAL ACCOUNTING

(2) Staff

An application of general accounting principles to state, city, and county fund units such as the general, special assessments, highway, and other funds; and to hospitals, universities, and other endowed institutions. Prereq., 126.

305-306. ADVANCED ACCOUNTING

(3-3) Stewart

Problems peculiar to partnerships, receiverships, fiduciaries, installment sales, consignments, insurance, estates and trusts; compound interest applications; governmental accounting; branches, consolidations, and mergers; and foreign exchange. Prereq., 126.

324. STANDARD COSTS AND BUDGETS

(3) Ray

The establishment of standard costs, preparation of budgets, and analysis of cost variances. Prereq., 175.

343. FEDERAL INCOME TAX ACCOUNTING

(2) Reininga, Stewart

Study of advanced tax problems of individuals, partnerships, and corporations including tax planning and administration. Prereq., 217.

355. INDUSTRIAL AUDITING AND INTERNAL CONTROL

(3) Beckert

Study of types of internal audits, audit reports, fraud, and an appraisal of the standards of internal auditing as a profession. Basic and internal controls are studied in their relation to the auditor's program. Prereq., 126 and 175.

356. AUDITING PRINCIPLES AND PRACTICE**(3) Beckert**

Purposes and scope of audits and examinations; audit principles and procedure; application of audit principles to practice material based on actual audit; and audit reports and certificates. Prereq., 126 and 175.

378. C.P.A. PROBLEMS**(3) Reininga, Stewart**

The accounting profession; C.P.A. coaching; analysis, interpretation, and solution of state board problems. Prereq., 175, 306, 356.

379. CONTROLLERSHIP**(3) Reininga, Stewart**

Case method study of problems and policy-forming decisions of the controllership function comprising the fields of general accounting, internal control, budgeting, taxes, cost control, and financial reporting. Prereq., 18 hrs., including 324 which may be taken concurrently.

381. RESEARCH IN ACCOUNTING**(1 to 8) Staff**

Prereq., 306, 324, permission.

391. SEMINAR IN ACCOUNTING**(2 to 4) Staff**

Maximum credit in course, 10 hrs. Prereq., 15 hrs., permission.

495. THESIS**(1 to 6) Staff**

Prereq., permission.

ADVERTISING**Professor Krauskopf****Associate Professors Paynter (chairman), Turnbull, Raymond****Assistant Professor Richmond****155. ADVERTISING PRINCIPLES****(3) Krauskopf, Raymond, Richmond, Turnbull**

A survey of advertising which considers its place in the field of marketing and its fundamental procedures. Prereq., Mkt. 155 or permission.

286. RETAIL ADVERTISING**(3) Krauskopf, Richmond**

The principles of advertising as related to the needs of retailers. Prereq., 155.

332. COPY WRITING**(2) Turnbull**

The elementary essentials of copy developed by the study of current theory and analysis of tested examples. Considerable constructive work is required. Prereq., 155 and Ec. 12 or 102.

376. ADVERTISING PROBLEMS**(3) Krauskopf, Richmond**

A logical sequel to 155. It emphasizes administrative problems and the coordination of advertising with other marketing activities. Prereq., 155.

381. RESEARCH IN ADVERTISING**(1 to 8) Staff**

Prereq., 18 hrs. commerce including 5 hrs. advertising and permission.

391. SEMINAR IN ADVERTISING**(2 to 4) Staff**

Maximum credit in course, 10 hrs. Prereq., 18 hrs. commerce including 5 hrs. advertising and permission.

495. THESIS

(1 to 6) Staff

Prereq., permission.

Additional courses:

- Psych. 135—Psychology of Advertising and Selling
- Jour. 146—Typography, Mechanics, and Makeup
- Jour. 247—Newspaper Advertising and Layout
- Jour. 277—Newspaper Advertising Practice
- Jour. 309—Radio—TV Advertising and Management
- Jour. 327—Public Relations Techniques
- Jour. 328—Public Relations
- Jour. 348—Advertising Production
- Art 147-148—Advertising Design

AGRICULTURE

Associate Professor DeVeau (chairman)
Assistant Professor and Farm Superintendent Stright

1, 2. INTRODUCTION TO AGRICULTURE

(3, 3) DeVeau

A general education course for all students to develop an understanding of the efficient use and conservation of agriculture's resources. A survey of the different agricultural enterprises, their interrelationships, and their relation to state and national agricultural problems. Identification of crops and livestock and their use. 2 lec., 2 lab. (Yearly.)

30. FORESTRY

(3) Stright

The practical application of forest products to the farm including identification of common trees and woods. 2 lec., 2 lab. (Each sem.)

102. GARDENING

(3) DeVeau

A study of the production, marketing, and preservation of vegetables for the home and market. A survey of plants raised in the garden and greenhouse. Garden planning and flower arrangement. 2 lec., 2 lab. (2nd sem.)

104. FRUIT PRODUCTION

(3) Stright

Study of propagation, planting, fruit-setting, nutrition, thinning, disease and insect control, harvesting, grading, and marketing of tree and small fruits. (2nd sem.)

121. LIVESTOCK MANAGEMENT

(4) DeVeau

The fundamentals of dairy, poultry, and general livestock production. A study of feeding programs, breeding methods, housing, judging and selection, record keeping, disease control, and marketing. 3 lec., 3 lab. (1st sem.)

201-202. AGRICULTURAL PRACTICES

(3-3) DeVeau, Stright

Practical experience either on the University farm or in the University greenhouse. 1 lec., 4 lab. (Yearly.)

216. CROPS AND SOILS

(4) DeVeau

A study of the common grain and forage crops. Soil types and their relation to crop production. Use and analysis of manures and fertilizers. 3 lec., 3 lab. Prereq., Geol. 106. (2nd sem.)

217. SOIL CONSERVATION

(3) Stright

A study of recommended practices in soil conservation for practical application on the farm. 2 lec., 2 lab. Prereq., 216 or permission. (1st sem.)

235. FARM MANAGEMENT

(3) DeVeau

The application of agricultural technology and economic information to the securing of maximum income from the farm. Experience in planning a five year farm program for a specific farm in the local community. 2 lec., 3 lab. Prereq., 121, 216. (1st sem.)

320. AGRICULTURAL ORGANIZATIONS

(3) DeVeau

A study of the major educational, commercial, cooperative, and service agencies organized to promote agriculture and rural living. 2 lec., 2 lab. Prereq. 15 hr. agriculture or commerce or both, permission. (2nd sem.)

322. AGRICULTURAL PROBLEMS

(1 to 4) Staff

Intensive individual work either in research or in systematic reading or both in some advanced phase of agriculture under the guidance of the instructor to meet the needs and interests of the student. Maximum credit in course, 9 hrs. Prereq., 15 hrs. and permission. (Each sem.)

381. RESEARCH IN AGRICULTURE

(2 to 4) Staff

Maximum credit in course, 6 hours. Prereq., 18 hrs. and permission. (Each sem.)

AMERICAN STUDIES—See General Studies**ARCHAEOLOGY AND ANTIQUITIES**

Instructor Hultgren

101. INTRODUCTION TO ARCHAEOLOGY

(3) Hultgren

Aims, methods and techniques; general types of archaeological work and excavation with emphasis on important sites. Maximum credit in course, 6 hrs. (1st sem., yearly.)

252. ARCHAEOLOGY OF THE MEDITERRANEAN AREA

(3) Hultgren

The archaeology of Egypt, Palestine, Greece, and the Aegean islands, with emphasis on Minoan (Cretan) and Mycenaean civilizations; some attention to the remains of the Roman period. Prereq., 101, or 11 hrs. foreign language, or 8 hrs. history (or art history) and antiquities. (2nd sem., yearly.)

ARCHITECTURE

Associate Professor Denison

Assistant Professor Olpp

Lecturers LeBoutillier, Dembrow

55-56. ARCHITECTURAL GRAPHICS

(2-2) LeBoutillier

Drafting room exercises in the theory and techniques of architectural representation. 1 lec., 3 lab.

101-102. ARCHITECTURAL DESIGN

(2-2) LeBoutillier

Analysis of basic structural systems in terms of visual and spatial potentialities; an empirical study based on drawings and models. 1 lec., 3 lab. Prereq., 56.

103. ARCHITECTURAL THEORY

(3) Staff

Study of the philosophy and theory of architectural design with particular emphasis on the period following the industrial revolution. 3 lec. Prereq., 102.

105-106. ARCHITECTURAL RENDERING

(2-2) Olpp

Familiarization with basic techniques as used in architectural rendering. Pencil, pen, wash-drawing, and watercolor. Prereq., Art 2 or permission.

- 155-156. ARCHITECTURAL DESIGN (5-5) LeBoutillier
Design of non-residential buildings and their sites. 1 lec., 6 lab.
Prereq., 56.
179. ARCHITECTURAL MATERIALS (3) Denison
2 lec. Prereq., permission.
183. ARCHITECTURAL EQUIPMENT (3) Denison
Mechanical equipment used in buildings, including plumbing and heating systems. 2 lec. Prereq., Phys. 5, 6 or permission.
257. FUNDAMENTALS OF RESIDENTIAL ARCHITECTURE (2) Denison
Lectures on residential architecture and housing. Prereq., permission.
258. DESIGN OF RESIDENTIAL ARCHITECTURE (3) Denison
Drafting room exercises supplementing material in 257. 6 lab.
Prereq., 257.
- 281-282. ARCHITECTURAL CONSTRUCTION (2-2) Denison
Architectural construction in wood, steel, concrete, and masonry as applied to residential and small commercial and public buildings. 2 lec.
Prereq., Math. 15, 16 or permission.
284. WORKING DRAWINGS (2) Denison
Drafting room application of the coordinated uses of materials and construction principles. 4 lab. Prereq., 179, 282.
- 285-286. SENIOR DESIGN (5-5) LeBoutillier
6 lab. Prereq., 156, 282.
301. PROBLEMS IN ARCHITECTURE (1 to 3) Staff
Supervised individual projects. Maximum credit in course, 12 hrs.
Prereq., senior and junior majors.
375. ARCHITECTURE IN THE UNITED STATES (2) Denison
Development of architecture from colonial times. Prereq., 8 hrs., including F.A. 175-176 or equivalent.

ART

Professors Mitchell, Way, Leach (director)
Associate Professors Work, C. L. Smith, Driesbach
Assistant Professors Leonard, Olpp, Hostetler,
D. O. Roberts, Lin, McCarthy, Baldwin
Instructors Mihal, French, Loomis, Eldridge
Lecturers Mutchler, J. Roberts

ART HISTORY

303. THE RENAISSANCE (3) Leach, Olpp
A comparative study of the developments in Italy prior to Raphael's death and in the north of Europe to the death of Hans Holbein the younger. Prereq., F. A. 17-18 or permission.
304. MANNERISM AND THE BAROQUE (3) Leach
Origin and development in Italy subsequent to 1520 with attention to variations in the north of Europe and in England. Prereq., F.A. 17-18 or permission.

371. LATIN-AMERICAN ART**(3) Olpp**

Architecture, sculpture and painting of the Hispanic Southwest, Mexico, Central America, the Caribbean area, and South America from Pre-Columbian times to the present. Prereq., F.A. 122, F.A. 176, or permission.

381. IMPRESSIONISM AND POST-IMPRESSIONISM**(3) Olpp**

Emphasis in developments in French Art between the 1848 Revolution and 1900. The problems of the Academy, Romanticism, Classicism, Realism, Impressionism, Post-Impressionism, Cezanne, and the Symbolists. Prereq., F.A. 17-18 or permission.

382. CUBISM, EXPRESSIONISM, AND LATER DEVELOPMENTS**(3) Leach**

Appearance and development of basic artistic expressions from the beginning of the twentieth century to the present. Prereq., F.A. 17-18 or permission.

390. SEMINAR IN ART HISTORY**(2 or 3) Staff**

Individual and group problems on periods and movements. Detailed reports. Recommended for graduate students in the process of writing a thesis. Prereq., 18 hrs., including F.A. 122 and permission.

Additional courses: F.A. 121-122—History of Painting and Sculpture and F.A. 175-176—History of Architecture. Attention is called to Philosophy 302—Aesthetics.

ART**1-2. DRAWING AND DESIGN****(3-3) Staff**

Emphasis on the inseparability of drawing and design. Aesthetic principles are dealt with as they arise out of specific problems rather than as separate entities. Required of all freshmen.

3. ELEMENTARY DESIGN FOR TEACHERS**(2) Staff**

Principles of design, color, lettering, and related problems. Planned for students who expect to major in elementary education. 1 lec., 3 lab.

21. ELEMENTARY SCULPTURE**(2) Staff**

Theory and aesthetic application of principles of art with emphasis on volumetric organization. Required of all freshmen.

28. FIGURE DRAWING**(2) Staff**

Study of the human figure from the nude and draped model. Maximum credit in course, 6 hrs.

91. DESIGN AND COMPOSITION**(3) Staff**

Special emphasis on color and design. Planned for students who expect to major in home economics. 1 lec., 5 lab.

101-102. DRAWING AND DESIGN**(3-3) Staff**

Continuation of Art 2. Required of all Sophomores. Prereq., 2 or equivalent.

103-104. REPRESENTATION**(3-3) Mitchell**

Concentration on and analysis of the representational function in drawing and painting. Especial attention to the demands of scientific illustration. First semester's work in black and white; second semester's in color. Maximum credit in course, 6 hrs. Prereq., 2 or equivalent.

107. ADVANCED DESIGN**(3) French**

Introduction to Industrial Design with emphasis on three-dimensional construction, rendering, and production processes. Prereq., Art 2, or 101 or 102.

111. DRAWING WORKSHOP

(2) Staff

Experimentation and familiarization with traditional and contemporary drawing techniques and media. Maximum credit in course, 4 hrs. Prereq., 2 or equivalent.

113-114. LETTERING

(3-3) Smith

Basic relationships to typography. Application in the production of posters, book jackets, trade-marks. Experimentation with various media. 6 lab. Prereq., 2 or equivalent.

115. CERAMICS

(3) Lin

Production processes. Introduction to the chemistry of glazes and simple geology of clays. Field trips to potteries and native clay deposits. 1 lec., 5 lab. Prereq., 2 or equivalent.

116. CERAMICS

(3) Lin

Decorative techniques. Slide lectures concerning decorative techniques of ancient and contemporary ceramic art. Introduction to glaze testing methods. 1 lec., 5 lab. Prereq., 115.

118. WATER COLOR

(3) Staff

Painting in the studio and out-of-doors. 6 lab. Prereq., 2.

120. TEXTILE DESIGN

(3) Way

Weaving, block printing, silk screen. Maximum credit in course, 6 hrs. 2 lec., 4 lab. Prereq., 107 or permission.

123. JEWELRY

(2) French

Original designs executed in silver and copper. Maximum credit in course, 6 hrs. 1 lec., 3 lab. Prereq., 2 or equivalent.

125. ART IN EVERYDAY LIFE

(2) Way

Appreciation and selection of the best articles available for the home, costume, etc., according to their functional qualities.

128. ADVANCED FIGURE DRAWING

(3) Mutchler

Accent on anatomical construction. For students who have a minimum grade of B in the second semester of Art 28. Prereq., permission.

137. FASHION DESIGN

(2) Way

Design in relation to dress and to individual characteristics. Adaptation of historic styles to modern costume. 1 lec., 3 lab. Prereq., 2 or 91 and 28 or with 28.

147-148. ADVERTISING DESIGN

(2-2) Smith

Magazine, newspaper, and direct mail layout. Creative design and advertising production. 4 lab. Prereq., 113.

160. PRACTICAL DESIGN WORKSHOP FOR ELEMENTARY TEACHERS

(1 to 3) Leonard, Mihal

Problems in modeling, ceramics, murals, puppets, painting, and other activities related to the elementary school and philosophy of teaching. Prereq., 3.

205. PAINTING

(2) Staff

Basic techniques and practices in oil painting. Maximum credit in course, 12 hrs. Prereq., 10 hrs. or permission.

231. SCULPTURE

(3) Hostettler

Modeling from life in clay and plaster. Work with terra-cotta, stone, wood, and metal. Maximum credit in course, 12 hrs. 6 lab. Prereq., 10 hrs. incl. 21.

240. DESIGN APPLIED TO MATERIALS (2) Mihal

For art majors planning to teach art in the elementary and secondary fields. Prereq., 9 hrs.

260. TEACHING OF ART (3) Way

Prereq., 20 hrs. as specified for certification.

271-272. INTERIOR DESIGN (3-3) Way

A brief study of architectural details and historic styles of furniture as used in modern homes. House plans, decorative treatments, and materials. 2 lec., 4 lab. Prereq., 10 hrs. or permission.

301. INDIVIDUAL PROBLEMS (1 to 3) Staff

Senior and graduate registration for individual instruction. Prereq., permission. Maximum credit in course, 12 hrs.

309. PRINTS**a. LITHOGRAPHY AND RELIEF PRINTS (3) Roberts****b. INTAGLIO PRINTS (3) Driesbach**

Prereq., 12 hrs. and permission.

310. PRINTS (3) Driesbach, Roberts

Silk screen, linoleum and wood blocks, etching, aquatint, dry point, lithography, and other related media. Prereq., 309a or 309b.

313. ADVANCED INTERIOR DESIGN (3) Way

Research is stressed and original adaptations are made from styles of important periods. Maximum credit in course, 12 hrs. 2 lec., 4 lab. Prereq., 272 and permission.

316. ADVANCED CERAMICS (3) Lin

Advanced production methods. Construction of potter's wheel, ball mill, and electric kilns. Advanced glaze and clay testing techniques. Maximum credit in course, 9 hrs. Prereq., 12 hrs., including 116 and permission.

317-318. ADVANCED ADVERTISING DESIGN (3-3) Smith

Magazine, newspaper, direct mail, and display layout. Prereq., 148.

321. ADVANCED FASHION DESIGN (2) Way

Maximum credit in course, 10 hrs. 1 lec., 3 lab. Prereq., 7 hrs., including 137 and 128.

325. ADVANCED JEWELRY (2) French

Maximum credit in course, 6 hrs. 1 lec., 3 lab. Prereq., 10 hrs. including 123.

327. ENAMELING (2) French

Design and construction of metallic objects toward ceramic application of enamels. 1 lec., 3 lab. Prereq., 9 hrs., including 115.

328. FIGURE PAINTING (3) Mutchler

Painting from the nude or costumed figure. A study of the plastic qualities in oil painting in relation to the personal objectives of the individual student. Maximum credit in course, 12 hrs. Prereq., 9 hrs. including 128 or permission.

341. ADVANCED PAINTING (2 or 3) Staff

Maximum credit in course, 12 hrs. Prereq., 205.

351-352. INDUSTRIAL DESIGN

(2 or 3-2 or 3) French

Design and presentation of industrial products with emphasis on function, appearance, and material. 4 lab. Prereq., 9 hrs., including 107, 231.

365-366. ILLUSTRATION

(3-3) Mutchler

Accent on student practice. Story and commercial illustration using present-day techniques. Maximum credit in course, 9 hrs. Prereq., permission.

381. RESEARCH

(1 to 5) Staff

Individual problems of theory and practice involving research techniques. Prereq., permission.

428. FIGURE PAINTING

(3) Mutchler

Advanced work from the nude or costumed figure. Maximum credit in course, 12 hrs. Prereq., 328 or equivalent.

431. PRINTMAKING

(1 to 5) Driesbach, Roberts

Experimental work in various print media and their combinations. Maximum credit in course, 12 hrs. Prereq., 310 and permission.

436. SCULPTURE

(1 to 5) Hostetler

Advanced work in plaster, wood, stone, direct steel, and ceramic media. Maximum credit in course, 12 hrs. Prereq., 231 and/or permission.

451. INDUSTRIAL DESIGN

(1 to 5) French

Advanced problems in the design and presentation of industrial products. Maximum credit in course, 12 hrs. Prereq., 351, permission.

471. ADVANCED PAINTING

(1 to 5) Staff

Advanced work in traditional and contemporary media. Solutions to the student's problems are sought in relation to his personal objectives. Maximum credit in course, 12 hrs. Prereq., permission.

495. THESIS

(1 to 6) Staff

Prereq., permission.

ASTRONOMY

Professor Goedicke

11. ELEMENTARY ASTRONOMY

(2 or 3) Goedicke

The appearance of the sky as related to time, latitude, and longitude. The physical properties of the sun, moon, planets, comets, meteors, and meteorites. Atmospheres, temperatures, and surface conditions of other planets. Origin and evolution of the planets. 2 lec., 2 lab. Credit in course without lab., 2 hrs. Lab. must be included if course is to fulfill natural science requirement. Prereq., high school physics and two years of high school mathematics. (1st sem., yearly.)

12. ELEMENTARY ASTRONOMY

(2 or 3) Goedicke

Distances, motions, and physical properties of the stars, the nebulae, and the galaxies. Modern theories of the origin and evolution of the stars and galaxies. 2 lec., 2 lab. Credit in course without lab., 2 hrs. Lab. must be included if course is to fulfill natural science requirement. Prereq., high school physics and two years high school mathematics. (2nd sem., yearly.)

135. ELEMENTS OF NAVIGATION

(2) Goedicke

Basic navigational astronomy; the use of the sextant; the Nautical Almanac; the Line of Position Method as used in air and surface navigation. Prereq., Math. 15. (Given upon sufficient demand.)

350. STUDIES IN ASTRONOMY

(1 to 4) Goedicke

Prereq., 11, 12, and permission. (Given upon sufficient demand.)

ATHLETICS—See Physical Education and Athletics

BIOLOGY—See General Studies

BOTANY Associate Professors Blickle, Wallace, Gambill (chairman)
Assistant Professors Vermillion, Wistendahl, Cohn

The major requirement for the A.B. degree is a minimum of 24 hours in departmental courses, and for the B.S. degree 30 hours. The major program must include Bot. 3-4, 105, 106 or 117, 123 or 173, 203, and 232, with at least six hours in courses numbered above 300. Biol. 1 and 2 may be substituted for Bot. 3. Chem. 3-4, 99 are required of all majors.

3-4. GENERAL BOTANY (3-3) Staff

The structure and functions of plants; their life cycles, classification and heredity; a survey of the plant kingdom; fundamental interrelationships of plants and animals, including man. 2 lec., 2 lab. No credit if Biol. 1 and 2 have been completed. (Each sem.)

105. ELEMENTARY PLANT PHYSIOLOGY (3) Wallace

The basic plant processes; applications of physiological relations of plants to agriculture, industry, and forestry. 2 lec., 2 lab. Prereq., 4; 1 year college chemistry. (1st sem., yearly.)

106. LOCAL FLORA (3) Gambill

Collection, identification and classification of flowering plants with emphasis on the native flora, with both laboratory and field studies. 2 lec., 2 lab. 2 Sat. field trips. Prereq., 4 or Biol. 2. (2nd sem., yearly.)

108. VEGETATION OF NORTH AMERICA (2) Wistendahl

An illustrated lecture course considering extensive plant formations with relationship to climate, soil, geographic formations, and the influence of man. 2 lec. Prereq., 4 or Biol. 2. (2nd sem., 1960-61.)

117. DENDROLOGY (3) Gambill

Collection, identification, and classification of native and introduced woody plants in summer and winter conditions. 2 lec., 2 lab. 2 Sat. field trips. Prereq., 4 or Biol. 2. (1st sem., yearly.)

123. INTRODUCTION TO THE FUNGI (3) Vermillion

A general survey of the fungi stressing both taxonomy and morphology, through field and laboratory studies. 2 lec., 2 lab. Prereq., 4 or Biol. 2. (1st sem., yearly.)

173. FUNDAMENTAL PLANT MORPHOLOGY (3) Blickle

Phytoplankton, algae, lichens, and bryophytes with special emphasis upon comparative structures and morphogenesis. 2 lec., 2 lab. Prereq., 4 or Biol. 2. (1st sem., yearly.)

203. PLANT ECOLOGY (4) Wistendahl

The study of natural plant communities with respect to environmental conditions. 2 lec., 4 lab. or field work. Prereq., 105 or 117. (1st sem., yearly.)

210. PLANT BREEDING AND GENETICS (3) Wallace

Experimental and practical methods of developing commercial plants, and the genetic approach to evolution. 2 lec., 2 lab. Prereq., 4, Zool. 107. (2nd sem., 1961-62.)

211. PLANT ANATOMY (3) Blickle
Comparative structure of vascular plants. 2 lec., 2 lab. Prereq., 173. (1st sem., 1961-62.)
212. PLANT MICROTECHNIQUE (3) Cohn
Principles and methods of preparing plant tissues for microscopic study; calibration of the microscope and photomicrographic practices. 2 lec., 2 lab. Prereq., 173. (2nd sem., 1960-61.)
221. PLANT PATHOLOGY (4) Vermillion
The nature, cause, and control of plant diseases. 2 lec., 4 lab. Prereq., 123 or Agr. 216. (2nd sem., 1961-62.)
232. CYTOLOGY (3) Cohn
Gross and fine structure of cells; mitosis, meiosis; cytoplasmic components and their behavior; chemistry and morphology of chromosomes. 2 lec., 2 lab. Prereq., 4 or Zool. 4. (2nd sem., yearly.)
304. FOREST ECOLOGY (4) Wistendahl
The forest environment, and methods of studying the growth and development of trees and forest stands. 2 lec., 4 lab. Prereq., 203. (2nd sem., 1961-62.)
307. ADVANCED PLANT PHYSIOLOGY (4) Wallace
Advanced study of plant processes with special emphasis on techniques employed in research. 2 lec., 4 lab. Prereq., 105, and a course in organic chemistry. (2nd sem., 1960-61.)
311. PALEOBOTANY (3) Blickle
Plant fossils throughout geological time. 2 lec., 2 lab. 2 Sat. field trips. Prereq., 173 and 3 hrs. geology. (2nd sem., 1960-61.)
314. DEVELOPMENTAL PLANT MORPHOLOGY (3) Blickle
The development of ferns and seed plants with emphasis on embryology and organogenesis. 2 lec., 2 lab. Prereq., 173 or 211. (2nd sem., 1960-61.)
315. SYSTEMATIC BOTANY (4) Gambill
The systematics, nomenclature, and phylogeny of angiosperms through laboratory, field, and herbarium studies, with emphasis on the fall flora. 2 lec., 4 lab. 2 Sat. field trips. Prereq., 106. (1st sem., 1960-61.)
316. TAXONOMY OF THE NONVASCULAR PLANTS (3) Gambill
Identification, nomenclature, and classification of the bryophytes and lichens through laboratory and field studies. 2 lec., 2 lab. 2 Sat. field trips. Prereq., 106, 173. (2nd sem., 1961-62.)
318. WOOD TECHNOLOGY (3) Blickle
The methods of identification, and the uses of wood and its products with emphasis on comparative structure. 1 lec., 4 lab. 2 all-day field trips. Prereq., 117, 211. (1st sem., 1960-61.)
324. FOREST PATHOLOGY (3) Vermillion
Diseases of forest and shade tree species, their economic importance, prevention and control. Prereq., 117, 123, or 221. 2 lec., 2 lab. (2nd sem., 1960-61.)
325. MYCOLOGY (3) Vermillion
The ways in which man makes use of fungi in agriculture, medicine, and industry, with emphasis on the physiology of fungi. 2 lec., 2 lab. Prereq., 123 and 1 yr. college chemistry. (2nd sem., 1961-62.)

327. CYTOGENETICS

(3) Cohn

Genetics and cytology in terms of chromosomes and their behavior; polyploidy; chromosomal aberrations; effects of radiation and chemical mutagens, with particular emphasis on plants. 3 lec. Prereq., 232, Zool. 107. (1st sem., 1960-61.)

343. BOTANICAL STUDIES

(2 to 4 a semester in any of the following)

Semi-independent studies supervised by the instructor. May include interdepartmental projects. Maximum credit in any listed area, 6 hrs.; total for all areas, 9 hrs. Prereq., 12 hrs. including one listed course in that area and permission.

- a. **Plant Morphology**—studies of the fundamental plant form, structure, life cycles, and reproduction. Blickle
- b. **Plant Physiology**—studies in the primary functions, processes, and growth phenomena of plants. Wallace
- c. **Plant Ecology**—studies in the interrelations of plants to one another and to the environment. Wistendahl
- d. **Plant Classification**—studies in the principles, theories, and systems of plant classification. Gambill
- e. **Plant Disease**—studies in the nature, prevention, cause, and control of plant diseases. Vermillion
- f. **Plant Breeding**—the study of the several methods of hybridization of higher plants, polyploidy, and speciation. Wallace
- g. **Mycology**—advanced studies of nonpathogenic macrofungi and microfungi. Vermillion
- h. **Cytology and Cytogenetics**—studies of cell structure and functions; chromosome structure, composition, and behavior. Cohn

381. RESEARCH PROBLEMS

(1 to 4) Staff

Independent research. Maximum credit in course, 6 hrs. Prereq., 18 hrs., permission.

391, 392. SEMINAR IN BOTANY

(1, 1) Staff

Presentation of papers based on individual research or on readings in current botanical literature. Required of all senior majors and graduate students. Prereq., 15 hrs., permission. (Yearly.)

495. THESIS

(1 to 6) Staff

Prereq., permission.

BUSINESS LAW

Associate Professor Howard (chairman)
Instructor Kloss

255-256. BUSINESS LAW

(3-3) Howard, Kloss

The principles of law involved in contracts, agency, sales, negotiable instruments, partnerships, and corporations. Prereq., junior or senior rank.

342. LAW OF REAL ESTATE

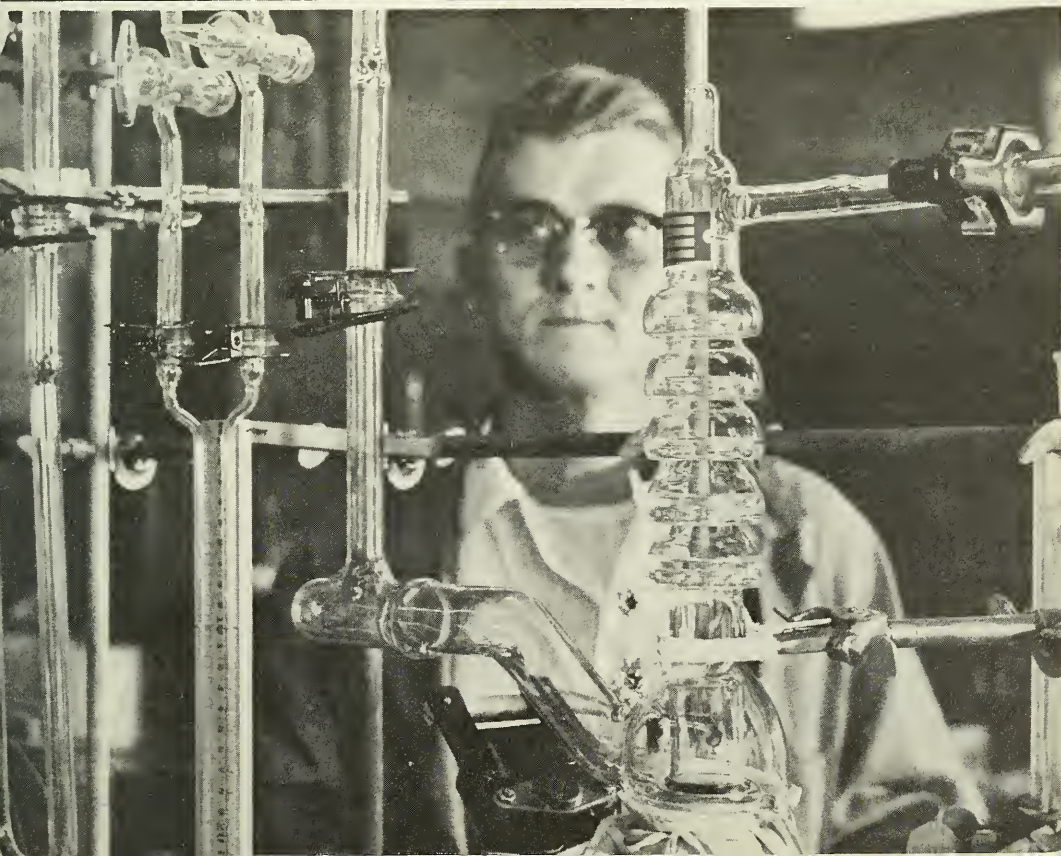
(2 or 3 as scheduled) Howard, Kloss

Deeds, mortgages, leases, and other interests in real property, and the relationships between landlord and tenant. Prereq., 256 or permission.

362. LAW OF ESTATES AND TRUSTS

(2 or 3 as scheduled) Howard

The nature, creation, administration, and disposition of estates and trusts along with the principles of law pertaining thereto, and a consideration of the problems involved in planning an effective and economical gift distribution of property interests. Prereq., 256.





375. GOVERNMENT AND BUSINESS

(3) Howard

A study of statutes and court decisions by which government controls, regulates, and aids business under the commerce clause, the police power, and the anti-trust laws. Prereq., 255 or permission.

381. RESEARCH IN LAW

(1 to 8) Staff

Prereq., 18 hrs. commerce including 256 and permission.

CERAMICS—See Art**CHEMICAL ENGINEERING—See Engineering****CHEMISTRY**

Professors Clippinger, Eblin, Day (chairman)
Associate Professors Huntsman, Kline, Ingham, Sympton
Assistant Professors Brooks, Smith, Tong, McKay

A student who completes the requirements for the B.S. degree with a major in chemistry, as outlined below, is eligible for professional status in the American Chemical Society in the minimum period of two years of professional experience after graduation. Completion of the minimum requirements for the A.B. degree with a major in chemistry does not qualify a student for certification to the society.

The major requirement for the B.S. degree is a minimum of 40 hours including Chem. 3-4-99; 201-202; 203-204; 305; 313-314; 315; 333; and three additional hours above 300. Extra-departmental requirements include Math. 102 and Physics 114, which should be completed by the end of the second year.

The major requirement for the A.B. degree is a minimum of 27 hours including Chem. 3-4-99; 107 or 109; 113 or 201-202; 117 or 203; 311 or 313-314. A full year's work is required in at least one of the following fields: Quantitative Analysis (109, 305), Organic (201-202), Physical (313-314). Six hours in chemistry courses above 300 are required.

Students having foreign language requirements should take German, including 103. Those anticipating graduate study should obtain a reading knowledge of German and Russian, or German and French.

3-4. GENERAL CHEMISTRY

(4-2) Staff

A beginning course designed to provide a general survey of the subject. 3 lec., 3 lab. first sem., 2 lec., no lab. second sem. Concurrent registration in Chem. 99 required in second sem. Prereq., high school algebra. (Each sem.)

99. QUALITATIVE ANALYSIS

(2) Staff

The separation and identification of cations and anions by methods illustrating the principles of chemical equilibrium and solubility relations. 1 lec., 3 lab. Prereq., 3, concurrent registration in 4. (Each sem.)

107. QUANTITATIVE ANALYSIS

(4) Clippinger, McKay, Sympton

A course in analytical chemistry for students not majoring in chemistry. 2 lec., 6 lab. Prereq., 99. (Each sem.)

109. QUANTITATIVE ANALYSIS

(4) Clippinger, McKay, Sympton

A course in the fundamentals of gravimetric and volumetric analysis. Designed for chemistry and chemical engineering majors. Prereq., 99. (First sem., yearly.)

113. ORGANIC CHEMISTRY

(4) Huntsman, Ingham, Smith

A course in organic chemistry for students who are not B.S. majors in chemistry. Prereq., 4. (Yearly.)

117. ORGANIC CHEMISTRY LABORATORY (2) Huntsman, Ingham, Smith

A course in organic preparations and reactions to accompany Chem. 113, or 201-202 as approved. 6 lab. Prereq., 113 or with 113, or 202 or with 202. (Yearly.)

201-202. ORGANIC CHEMISTRY (3-3) Huntsman, Ingham, Smith

A comprehensive course in organic chemistry which integrates current concepts with a sound classical background. Designed for chemistry majors. Prereq., 107 or 109, or with 107 or 109. (Yearly.)

203-204. ORGANIC CHEMISTRY LABORATORY

(2-2) Huntsman, Ingham, Smith

Practical laboratory work in organic chemistry. Designed to accompany Chem. 201-202. 6 lab. Prereq., 201 or with 201 for 203; 202 or with 202 for 204. (Yearly.)

303. ADVANCED QUANTITATIVE ANALYSIS

(3) McKay, Simpson

A lecture course in classical analytical chemistry for entering graduate students needing further training in analytical chemistry. Prereq., 109. (Yearly.)

305. INSTRUMENTAL ANALYSIS

(4) McKay, Simpson

Methods of instrumental analysis: Electrometry, polarography, coulometry, emission and absorption spectroscopy, and chromatography. 2 lec., 6 lab. Prereq., 314. (Yearly.)

311. PHYSICAL CHEMISTRY

(3) Brooks, Day, Eblin

For pre-medical students and non-chemistry majors. Prereq., 12 hrs. chemistry, 5 hrs. mathematics. (1st sem., yearly.)

313-314. PHYSICAL CHEMISTRY

(3-3) Brooks, Day, Eblin

Not open for credit to graduate students majoring in chemistry. Prereq., 107 or 109, Math. 102, Phys. 114. (Yearly.)

315-316. PHYSICAL CHEMISTRY LABORATORY

(2-2) Eblin

6 lab. Prereq., 311 or 313 or with 311 or 313. (Each sem.)

317. CHEMICAL THERMODYNAMICS

(3) Brooks, Day, Tong

Prereq., 314. (1st sem., yearly.)

321. QUALITATIVE ORGANIC ANALYSIS

(4) Huntsman, Ingham, Smith

The separation and identification of organic compounds. 2 lec., 6 lab. Prereq., 204. (2nd sem., yearly.)

333. INORGANIC CHEMISTRY

(3) Kline, Tong

Inorganic chemical reactions and structure. Prereq., 16 hours. (1st sem., yearly.)

335. RADIOCHEMISTRY

(3) Kline, Tong

An introductory course in the application of isotopes to problems in chemistry, and the chemical effects of the radiation and mass of isotopes. Prereq., 314. (Yearly.)

336. RADIOCHEMISTRY LABORATORY

(2 or 3) Kline, Tong

A course in the techniques of handling, detection, and determination of radioactive material and the application of radioactive tracers to the solution of problems in chemistry. 3 lab. Prereq., 335. (Yearly.)

350. CHEMICAL LITERATURE

(2) Ingham, McKay

Introduction to chemical literature in journals, handbooks, monographs, and patents. Particular emphasis will be given to selected problems in finding, assembling, and using chemical data. Prereq., 24 hrs., reading knowledge of German. (Yearly.)

351. SPECIAL PROBLEMS IN CHEMISTRY (2 or 3) Staff

Minor research with laboratory and library work. Maximum credit in course, 6 hrs. Prereq., 24 hrs. with a B average. (Each sem.)

405. ELECTROCHEMICAL METHODS OF ANALYSIS (3) Sympson

A course dealing with the fundamentals and applications of potentiometric titrations, conductometric titrations, coulometry, voltammetry and amperometric titrations, and chromopotentiometry. Prereq., 305. (1st sem., 1961-62.)

406. OPTICAL METHODS OF ANALYSIS (3) McKay, Sympson

Application of emission spectroscopy, absorption spectroscopy, X-rays, fluorophotometry, nephelometry, and turbidimetry to chemical analysis. Prereq., 305. (2nd sem., 1961-62.)

408. MODERN TECHNIQUES OF CHEMICAL SEPARATIONS (3) McKay

The fundamentals and applications of ion exchange, chromatography, electrodepositions, electrophoresis, and extractions. Prereq., 303. (2nd sem., 1960-61.)

410. SPECIAL TOPICS IN ANALYTICAL CHEMISTRY (2 or 3) Staff

Topics of special interest in analytical chemistry. Electronics, nuclear magnetic resonance, solvents, and organic reagents. Prereq., permission. (1st sem., 1961-62.)

418. CHEMICAL KINETICS (3) Day, Tong

The purpose of the course is to gain insight into the mechanisms by which chemical reactions occur, and the energies involved, through interpretation of data on rates of reactions. Prereq., 314. (2nd sem., yearly.)

425. QUANTUM CHEMISTRY (3) Brooks

The fundamentals of quantum theory and their application to some simple systems of chemical interest. Prereq., 314. (2nd sem., 1960-61.)

427. MOLECULAR STRUCTURE (3) Brooks

Prereq., 317. (2nd sem., 1961-62.)

429. STATISTICAL THERMODYNAMICS (3) Day

Prereq., 317. (Given upon sufficient demand.)

434. ADVANCED INORGANIC CHEMISTRY (3) Kline, Tong

Modern theoretical inorganic chemistry. Prereq., 333. (2nd sem., 1961-62.)

437. SOLUTIONS (3) Tong

Selected topics in solution thermodynamics and kinetics, such as stoichiometry, theories of electrolytes, electrochemistry, irreversible processes, kinetics of induced reactions, acid-base catalysis, photochemistry, and heterogeneous reactions. Prereq., 314. (2nd sem., 1960-61.)

439. LESS FAMILIAR ELEMENTS (3) Kline

The chemistry of lanthanone and actinone elements, other less familiar elements, and less familiar oxidation states of other elements. Prereq., 333. (1st sem., 1960-61.)

441. COORDINATION COMPOUNDS (3) Kline, Tong

The classification, nomenclature, synthesis, structure, equilibrium and kinetics of substitution and isomerization reactions of coordination compounds, and the nature and energetics of the coordination bond. Prereq., 333. (2nd sem., 1961-62.)

445-446. ADVANCED ORGANIC CHEMISTRY

(3-3) Huntsman, Ingham, Smith

Modern aspects of organic chemistry with emphasis on the relationships between structure and reactivity. Prereq., 202. (Yearly.)

451, 452. SEMINAR IN CHEMISTRY

(1, 1) Staff

Required of all graduate students in chemistry each semester in residence. (Yearly.)

471. PHYSICAL ORGANIC CHEMISTRY

(3) Huntsman, Ingham, Smith

The application of modern concepts to the mechanisms of organic reactions. Both ionic and free-radical reactions are discussed. The impact of quantum mechanics on theoretical organic chemistry is emphasized. Prereq., 446. (2nd sem., 1961-62.)

473. STEROIDS

(3) Smith

The proof of structure of the steroid nucleus as well as studies in the partial or total synthesis of steroids are considered. Recent advances in the chemistry of the sterols, bile acids, sex hormones, adrenal hormones, and sapogenins are discussed. Prereq., 446. (1st sem., 1960-61.)

475. TERPENES

(3) Huntsman

The chemistry of terpenes and related compounds, with particular emphasis on classical and modern methods of proving structure. Prereq., 446. (2nd sem., 1961-62.)

477. HETEROCYCLIC COMPOUNDS

(3) Ingham

Principal heterocyclic systems, including some related natural products. Prereq., 446. (1st sem., 1961-62.)

480. RESEARCH TECHNIQUES

(3) Staff

Lectures and laboratory practice in the skills of research; glass-blowing, vacuum work, crystallization, distillation, and so forth. Prereq., permission. (Yearly.)

481. RESEARCH IN CHEMISTRY

(As recommended by department) Staff

Prereq., 36 hrs. (Yearly.)

495. THESIS OR DISSERTATION

(As recommended by department) Staff

Prereq., permission.

CIVIL ENGINEERING—See Engineering

CLASSICAL LANGUAGES

Professor Murphy (chairman)
Instructor Hultgren

Two types of courses are included: (1) courses in the Greek and Latin languages in the original; (2) courses requiring no knowledge of the original languages.

The major requirement in Latin for the A.B. degree is a minimum of 24 hours above courses 1-2, exclusive of courses in class (2) above. Majors in Latin should include courses 331 and 333.

A major in Greek is not offered, but Latin majors are encouraged to take as much Greek as possible. Students who plan to do graduate work in Latin should plan a dual major in Greek and Latin.

GREEK

- 1-2. BEGINNING GREEK (Yearly.) (4-4) Hultgren, Murphy
27. GREEK WORDS IN ENGLISH (2) Murphy
 Terms of Greek origin which provide a major part of the technical vocabulary in many cultural and professional fields. No knowledge of Greek required. No credit toward meeting the foreign language requirement. (1st sem., yearly.)
- 101-102. GREEK PROSE AND POETRY (3-3) Hultgren, Murphy
 Review of language principles. Readings from Homer, Plato, Xenophon, and the New Testament. Prereq., 2. (Yearly.)
309. ADVANCED GREEK READINGS (1 to 3) Hultgren, Murphy
 Selections from the poets, dramatists, orators, and philosophers. Maximum credit in course, 9 hrs. Prereq., 12 hrs. (Yearly.)

LATIN

- 1-2. BEGINNING LATIN (Yearly.) (4-4) C. Hood
101. LATIN REVIEW AND READING (4) Murphy
 For those who need a thorough review. Prereq., 2 or 2 yrs. high school Latin. (1st sem., yearly.)
102. VERGIL (4) Murphy
 Readings from Aeneid, Books I-VI. Prereq., 101 or 3 yrs. high school Latin. (2nd sem., yearly.)
151. FAMILIAR ESSAYS (3) Hultgren
 Cicero's *De Amicitia*, *De Senectute*, *Somnium Scipionis*. Review of essential Latin. Prereq., 102, 4 yrs. high school Latin, or 3 yrs. high school Latin and permission. (1st sem., yearly.)
152. HORACE AND TERENCE (3) Hultgren
 A comedy by Terence and selections from Horace's *Odes* and *Epodes*. Prereq., 102 or 4 yrs. high school Latin. (2nd sem., yearly.)
303. PLINY AND MARTIAL (3) Murphy
 Letters and epigrams revealing the human side of Roman life and society from Nero to Trajan. Prereq., 152. (1st sem., 1961-62.)
304. LIVY AND OVID (3) Murphy
 The legendary history of early Rome and mythology in verse. Prereq., 152. (2nd sem., 1960-61.)
311. CICERO (LETTERS) AND CATULLUS (POEMS) (3) Hultgren
 Prereq., 152. (1st sem., 1960-61.)
318. READINGS IN LATIN LITERATURE (1 to 4) Hultgren, Murphy
 Selections from a wide range of Latin literature. Maximum credit in course, 10 hrs. Prereq., 152. (2nd sem., 1961-62.)
331. THE LIFE OF THE ROMANS (2) Hultgren
 The family, the house, transportation, public amusements, and related features. Illustrations from the archaeological evidence. Prereq., 8 hrs. or 8 hrs. history and antiquities. No knowledge of Latin required. (Given upon sufficient demand.)
333. ADVANCED LATIN SYNTAX (2) Murphy
 Prereq., 152. (Given upon sufficient demand.)

340. SPECIAL WORK IN LATIN

(1 to 4) Hultgren, Murphy

Individual work under careful guidance. Maximum credit in course, 8 hrs. Prereq., 152.

DESIGN—See Art**DRAMATIC ART**

Professor Seigfred

Associate Professor Lane

Assistant Professors Hahne, Catalano, Trisolini

Instructor Nichol

10. INTRODUCTION TO THEATRE

(2) Lane, Staff

The role of the theatre in our culture and the practical application, interrelationships, and over-all unity of various art forms in play production.

21. ELEMENTS OF STAGE SCENERY

(3) Catalano

Basic principles of scenic construction; types and utilization of stage scenery. 1 lec., 4 lab.

47. THEATRE LABORATORY

(1) Catalano

Costuming, make-up, and technical work coincident with the productions of the University Theatre. Maximum credit in course, 2 hrs.

48. MAKE-UP

(1) Nichol

2 lab.

99-100. MOVEMENT AND PANTOMIME

(2-2) Hahne

Movement from the viewpoint of dance and drama; body mechanics; dynamics of movement in space and time; experimental application of discovered techniques to social and dramatic situations.

105. PLAY PRODUCTION

(3) Hahne

Choice of play, casting, direction, and techniques of production. Laboratory experience. Not open to majors in theatre.

123. ELEMENTS OF STAGE LIGHTING

(3) Catalano

Stage-lighting units, control equipment, and color media, and their application to play production. 1 lec., 4 lab.

147. THEATRE LABORATORY

(1 or 2) Catalano

Costuming, make-up, and technical work connected with the productions of the University Theatre. Maximum credit in course, 6 hrs. Prereq., permission.

207. COSTUMING

(4) Nichol

The use of color, line, and texture in designing, constructing, and adapting costumes for the stage. 2 lec., 4 lab, plus crew work on productions. Prereq., 21.

260. TEACHING OF HIGH SCHOOL DRAMATICS AND SPEECH

(3) Andersch

See Speech 260.

299. PRINCIPLES OF ACTING

(3) Hahne

Elementary techniques of stage action and practice in the reading, cutting, and acting of dramatic literature. 1 lec., 4 lab. Prereq., 99 and Speech 34.

300. **ADVANCED ACTING** (3) Lane
Creation of roles in plays of different types, styles, and periods. Study of dialects. Laboratory experience in rehearsal and performance. 1 lec., 4 lab. Prereq., 299 and permission.
306. **ADVANCED STAGECRAFT** (3) Catalano
Theories and problems involved in scenic decor. 1 lec., 4 lab. Prereq., 12 hrs., including 21 and 123.
321. **HISTORY OF DRAMATIC CRITICISM** (3) Trisolini
The principles of dramatic criticism from Aristotle to the present. Prereq., 12 hrs. or equivalent advanced courses and permission.
322. **DRAMATIC COMPOSITION** (3) Trisolini
Theory of playwriting. Practical experience in the writing and rewriting of plays. Scripts of sufficient merit are produced under the writer's supervision by the University Playshop. Prereq., 6 hrs. and 12 hrs. English and/or journalism.
323. **SCENE DESIGN AND PAINTING** (3) Catalano
Theories of the designing and painting of stage settings; effect of stage lighting on scenery and make-up; practical experience. 1 lec., 4 lab. Prereq., 21, 123.
339. **ACTING FOR LYRIC DRAMA** (3) Trisolini
Advanced techniques of acting in relation to the form and content of lyric drama. Special emphasis on the Elizabethan, with some attention to Greek and Twentieth century authors. 1 lec., 4 lab. Prereq., 300; Speech 34; English 223.
347. **WORKSHOP IN SUMMER THEATRE** (6 to 8) Catalano, Lane
Not open for graduate credit. Maximum credit in course, 16 hrs. Prereq., permission.
- 350-351. **PLAY DIRECTION** (3-3) Lane
Preparation of plays for public performance; analysis of the script, methods of casting and rehearsal. Capable students direct one-act plays presented by the University Playshop. 1 lec., 4 lab. Prereq., 12 hrs. including 300, and permission.
353. **MASTERS OF THE THEATRE** (3) Lane
Techniques for the production of historical plays. Preparation of the director's manuscript and actual supervision of production. Open only to majors in Dramatic Art. Prereq., 351, F.A. 180, and permission.
355. **THEATRE MANAGEMENT** (2) Seigfred
Prereq., senior or graduate rank and permission.
377. **PERIOD COSTUME DESIGN** (3) Andersch
History of costuming from the time of the Egyptians through the nineteenth century. Emphasis on the use of color, line, and texture and adaptation in the designing of period clothes for the stage. Prereq., 207 or equivalent, Art 28 or equivalent, or permission.
425. **CONTEMPORARY THEATRE** (3) Lane
Trends of modern world theatre beginning with the contributions of Saxe-Meiningen and the growth of realism. Prereq., 18 hrs., including F.A. 179 or equivalent.

435. ADVANCED LIGHTING

(3) Catalano

Lighting design, history of stage lighting. Advanced technical consideration of instruments, control equipment and color media. Production experience. 2 lec., 2 lab. Prereq., 323 or with 323 or equivalent.

447. ADVANCED PROBLEMS IN DRAMATIC PRODUCTION

(3 to 6) Catalano, Lane

Structure, management, direction, and finance of theatre programs with special reference to the summer theatre which serves as a laboratory for observation and participation. Summer sessions only. Maximum credit in course, 6 hrs. Prereq., permission.

480. SEMINAR IN TECHNICAL THEATRE OR COSTUMING (3 or 4) Staff

Prereq., 18 hrs. including 323 or equivalent.

481. SEMINAR IN DIRECTING OR THEATRE MANAGEMENT (3 or 4) Staff

Prereq., 18 hrs. including 351 or equivalent.

494. RESEARCH

(1 to 12) Staff

Individual, guided research on special problems. Projects must be approved prior to registration. Prereq., permission.

495. THESIS

(1 to 6) Staff

Prereq., permission.

Suggested courses:

See "Radio-TV" and "Speech and Speech and Hearing Therapy" under "Courses of Instruction," F.A. 179-180—History of the Visual Theatre, P.E. 7—Beginning Modern Dance, P.E. 8—Intermediate Modern Dance, P.E. 115-116—Advanced Modern Dance, and courses in Design or Painting and Drawing (see Art).

DRAWING—See Art

ECONOMICS

Professors Gubitz, Hellebrandt, Picard (chairman), Levinson

Associate Professor Crewson

Assistant Professors Charle, Meiburg

Instructor Darnton

A student may secure an A.B. degree with a major in economics. This program is designed to give a broad cultural background for those who plan careers in such areas as business, government, or law. This program also provides the basis for those who plan to attend graduate school to prepare for teaching and economics research.

The major requirement in economics is 24 semester hours including Economics 11-12 (or 101-102) and 333. In addition, one course in statistics is recommended, and this will be determined in consultation with the adviser.

Suggested electives should be chosen from government, history, philosophy, psychology, sociology, and other social sciences with the approval of the adviser.

11-12. PRINCIPLES OF ECONOMICS

(3-3) Staff

The basic theory and economic analysis of prices, markets, production, wages, interest, rent, and profits. The second half of the course is concerned with the economic problems and economic institutions of society. Among the problems analyzed are labor unions, money and banking, taxation, public utilities, international trade, business cycles, and agriculture. Not open to juniors and seniors.

101-102. PRINCIPLES OF ECONOMICS

(3-3) Staff

Description same as for 11-12. Not open to freshmen nor to those who have had 11 and 12.

305. ECONOMICS OF TRANSPORTATION

(2 or 3 as scheduled) Staff

Prereq., 12 or 102.

309. PUBLIC UTILITIES

(2 or 3 as scheduled) Levinson

The economic basis of the public utility concept and its relation to business organization. The nature, scope, development, legal organization, and regulation of public utilities. Prereq., 12 or 102.

315. PUBLIC FINANCE

(3) Picard

Analysis of spending and taxing functions of federal, state, and local governments. The growing importance of fiscal policy in determining level of employment. The economic effects of the various taxes of federal, state, and local governments. Prereq., 12 or 102.

320. ORGANIZATION AND STRUCTURE OF INDUSTRY

(3) Charle

Emphasizes the economic characteristics of the principal manufacturing and processing enterprises, and considers their historic development, financial organization, and legal aspects. Prereq., 12 or 102.

325. ECONOMIC POLICY AND INDUSTRIAL ORGANIZATION

(3) Charle

An examination of the social consequences of monopoly and competition, trends in industrial concentration, the consequences of bigness, the relationship between market structure and national income, and the concept of "workable" competition. National policy relating to economic concentration and market structure will be considered as well as the impact of this national policy on United States business. Prereq., 12 or 102.

329. COMPARATIVE ECONOMIC SYSTEMS

(2 or 3 as scheduled) Crewson

An analysis of the institutional framework of the following systems: modified capitalism, socialism, communism, and fascism. Special emphasis is given to the prevailing economic institutions in the United States, Great Britain, Russia, and Spain. Prereq., 12 or 102.

330. HISTORY OF ECONOMIC THOUGHT

(2 or 3 as scheduled) Hellebrandt, Picard

The historical evolution of the major economic doctrines; mercantilists and cameralists, physiocrats, Adam Smith and the classical school, the historical school, the Austrian school, Alfred Marshall and the neo-classicists. Prereq., 12 or 102.

332. MODERN ECONOMIC THOUGHT

(2 or 3 as scheduled) Picard

An analysis of the contributions to economics of the most significant writers since Alfred Marshall. Prereq., 12 or 102.

333. ECONOMIC THEORY

(2 or 3 as scheduled) Meiburg

An intensive study of the price system as an allocative mechanism. This includes the price and production policies of individual firms under alternative market conditions and an analysis of the effect of these policies on the social efficiency of resource allocation. Prereq., 12 or 102.

335. LABOR ECONOMICS

(3) Levinson

Survey of the economic forces generating modern labor problems. Among the topics considered are: history of the labor movement, labor in politics, labor-management relations, wages, and full employment. Prereq., 12 or 102.

338. LABOR LEGISLATION (2 to 3 as scheduled) Levinson

Survey of the law bearing upon labor problems. Among the topics considered are: labor-relations legislation, old-age and unemployment insurance, workmen's compensation, and wages-and-hours legislation. Prereq., 335.

342. INTERNATIONAL ECONOMICS (2 or 3 as scheduled) Crewson

A study of the economic relations of nations of the world. Some of the topics considered are: the economic basis for international trade and investment; the mechanics of international exchange; tariffs, quotas, exchange control, cartels, and state trading as devices of economic nationalism; and international economic cooperation with special reference to organizations affiliated with the United Nations. Prereq., 12 or 102.

350. NATIONAL INCOME AND EMPLOYMENT ANALYSIS (3) Meiburg

A study of the factors which determine the level of the nation's economic activity and which are responsible for growth and stability in the nation's economy. Part of the course is devoted to measures of the national income while the remainder consists of an analysis of the interrelationships among production, price levels, relative prices, employment, and capital formation. Prereq., 12 or 102.

355. ECONOMIC HISTORY OF THE UNITED STATES (3) Darnton

A study of the economic factors in the development of the United States including the historical growth of economic institutions such as banking, manufacturing, labor unions, and agriculture, from colonial times to the present. Prereq., 12 or 102.

375. ECONOMIC DEVELOPMENT (3) Crewson

An analysis of the nature of, obstacles to, and future possibilities for the economic growth of nations. Special emphasis is given to the problems of the underdeveloped countries. Studies of selected countries are utilized. Prereq., 12 or 102.

380. STUDIES IN ECONOMICS (1 to 3) Staff

Directed readings and/or research in selected fields of economics. Topics selected by student with advice of staff member. Prereq., 12 hrs. and permission.

381. RESEARCH IN ECONOMICS (1 to 8) Staff

Prereq., 15 hrs. and permission.

391. SEMINAR IN ECONOMICS (2 to 4) Staff

Maximum credit in course, 10 hrs. Prereq., 15 hrs. and permission.

450. ADVANCED ECONOMIC THEORY I (3) Picard

Partial and general equilibrium aspects of markets and prices with emphasis on economic theory as an aid to understanding the allocation process. The relevance of the market environment to the individual decision maker is stressed. Prereq., permission.

451. ADVANCED ECONOMIC THEORY II (3) Picard

An application of Keynesian and Post-Keynesian macroeconomic theories to the determination of income, employment, and prices. A study of the aggregative framework within which individual decisions are made. Prereq., permission.

495. THESIS (1 to 6) Staff

Prereq., permission.

EDUCATION

Professors Morton, Benz, Shoemaker, Hamblin (dean)
 Hill, Fuller, Hicks
 Associate Professors Quick, C. Roberts, McKelvey, Krantz,
 Crowell, Felsing, Evans, Lynn, Shuster, Otterman
 Assistant Professors Dunham, Olson, DeLand, Eisen,
 V. Nelson, Wilson, Starks, Cooper, Bean,
 Sligo, Chase, Ullmann, Forbes, Milliken,
 Green, Shrigley, Lackey
 Instructors Thompson, R. Nelson
 Lecturer K. Ray

ELEMENTARY EDUCATION**100. THE DEVELOPMENT OF KINDERGARTEN EDUCATION**

(2) Starks, Wilson

The history, development, philosophy, and current trends in kindergarten education. A study is made of the experiences appropriate to the age level based on the developmental approach to learning. Prereq., 103, kindergarten-primary majors or permission. Not open to freshmen.

101. MATERIALS AND METHODS IN KINDERGARTEN-PRIMARY EDUCATION

(2) Starks, Wilson

A study of work and play activities of early childhood, and the development, use, and care of materials best suited to this age group. Prereq., 100, 103, and kindergarten majors or permission.

102. LITERATURE FOR CHILDREN

(3) Quick, Starks

Experiences with children, developing plans for organizing the literature program in the elementary school, and criteria for evaluating books written for children.

103. STUDIES OF CHILDREN

(3) Deland, Fuller, Quick, Starks

Bases for a developmental theory of education; growth sequences through adolescence; principles of development, behavior, and learning; techniques of child-study; systematic observation in the University Elementary School; implications for educational practice.

163. TEACHING OF READING AND LANGUAGE

(3) Cooper, Milliken, Olson, Otterman

A practical course covering the language arts program in the elementary school. Methods and materials valuable in promoting child development in reading and the expressional phases of language are given major emphasis.

165. TEACHING OF ARITHMETIC IN THE ELEMENTARY SCHOOL

(3) Benz, Morton, Sligo

Criteria for determining the arithmetic program; a grade-by-grade development of topics and of methods of presentation.

169. TEACHING OF SOCIAL STUDIES AND SCIENCE IN THE ELEMENTARY SCHOOL

(3) Felsing, Shuster

Materials and methods used in teaching the content subjects in the elementary schools, with special emphasis upon unit teaching, social studies skills, and practical experiences in the teaching of science.

209. WORKSHOP IN ELEMENTARY EDUCATION

(2 to 6) Staff

A service course to help teachers solve the problems they are facing in the classroom. Prereq., 9 hrs. and permission.

211. THE CHILD AND THE CURRICULUM (3) Felsing, Milliken, Shuster

A study of the content of the elementary school curriculum. Emphasis is placed upon the service role of the curriculum to children and society. Prereq., 272, senior rank.

263. TEACHING OF ARITHMETIC IN THE UPPER GRADES

(2) Benz, Morton

Organization and methods of teaching the subject matter of the arithmetic curriculum in grades 7 and 8; the number system; arithmetic and life activities; arithmetic and a liberal education.

303. ADVANCED STUDIES OF CHILDREN

(3) Quick

An intensive study of certain basic research in child development and its implications for education. Prereq., 15 hrs. education or psychology, or permission.

411. PROBLEMS IN THE ELEMENTARY CURRICULUM

(3) Quick

A critical study of the basic issues and theories underlying curriculum development. Prereq., 359.

417 a, b, c, d. RESEARCH AND CURRICULUM
IN ELEMENTARY EDUCATION

Critical evaluation of the literature and recent research on objectives, content, and methodology. History of instruction, current problems and issues, recent trends, and emphasis in teaching practices. Impact of dominant theories of learning and philosophies of education. Research design and methodology in scientific investigations. Prereq., permission.

a. SOCIAL STUDIES

(3)—Felsing

b. ARITHMETIC

(3)—Benz

c. LANGUAGE ARTS

(3)—Cooper

d. READING

(3)—Cooper

Note: For other courses designed primarily for kindergarten and elementary teachers, see H. Ec. 155; Ind. A. 115; Mus. 72, 262; P. E. 270; and Art 3, 160.

SPECIAL EDUCATION — ELEMENTARY

Students desiring the state certificate to qualify as teachers of special education classes should consult Mrs. DeLand regarding required courses.

222. DIAGNOSTIC AND REMEDIAL INSTRUCTION IN
ELEMENTARY SUBJECTS

(2) DeLand

A laboratory course in methods of diagnosis and remedial treatment in fundamental school subjects for problem cases. Students are given opportunity to observe and work with exceptional children.

223. CURRICULUM FOR SPECIAL CLASSES

(3) DeLand

Types of curricula for special classes. Units of work, materials, and subject matter suited to the mental ability and level of exceptional children.

321. ORGANIZATION OF SPECIAL EDUCATION FOR
EXCEPTIONAL CHILDREN

(2) DeLand

Educational needs of those who differ markedly from normality—the slow-learning, the retarded, and the gifted; the physically handicapped; the emotionally unstable and socially maladjusted; their characteristics and incidences. Adjustments within regular classrooms, special classes, and special schools; individual child study, classification, and follow-up.

322. WORKSHOP IN SPECIAL EDUCATION (3) DeLand

To help all teachers of slow learning classes, regular teachers with slow learners, supervisors, and administrators of elementary and secondary schools. (Summer only.) Prereq., permission.

325. PROBLEMS IN SPECIAL EDUCATION — THE SLOW LEARNER (2 to 6) DeLand

Designed for the regular classroom teacher in elementary and secondary education. How to locate their needs and what to do about them.

SECONDARY EDUCATION**130. SECONDARY EDUCATION (3) Staff**

A historical, comparative, and contemporary study of secondary education. Emphasis is placed on the interrelations of school and society; administrative considerations such as pupil personnel, and the control, support, and organization of schools; and the objectives of education, programs of study, and student activities. Prereq., Psych. 5 and sophomore standing.

229. CURRICULUM AND TEACHING PRACTICES (4) Lynn, C. Roberts, Shoemaker

Topics which receive major consideration are curricular content and organization, principles of teaching-learning, techniques of classroom work, evaluation, and the respective roles of the teacher and the pupil. Prereq., 130.

333. EXTRA-CLASS ACTIVITIES IN THE SECONDARY SCHOOL (3) Lynn

The scope and organization of extra-class activities in the high school and their relationship to the curriculum. Treatment will concern Student Government, Clubs, Assemblies, Athletics, Music, Dramatics, Publications, Social Activities, Commencements, and related activities. Prereq., permission.

374. THE IMPROVEMENT OF READING IN SECONDARY SCHOOLS (2) Otterman

The extension of the reading program beyond the elementary school; the teaching of reading as a developmental process. Prereq., 9 hrs., Psych. 5.

432. THE HIGH SCHOOL CURRICULUM (3) C. Roberts

The high school program of studies, contributions of various subjects, theories of curriculum construction, curriculum research, and desirable steps in the reorganization of the high school curriculum. Prereq., 359.

PROFESSIONAL LABORATORY EXPERIENCES**272. STUDENT TEACHING IN THE ELEMENTARY GRADES (2 to 12) Evans and Staff**

To be taken concurrently with 288. Prerequisites indicated in College of Education section of catalog.

274. STUDENT TEACHING FOR ADVANCED STUDENTS (3) Staff

A seminar with observation, participation, and limited opportunities for teaching; open only to teachers with at least three years of teaching experience who desire to improve their teaching competence. Preference for placement is given to degree candidates. Prereq., permission. (First term of each summer session.)

277. FIELD EXPERIENCE

(2) Evans and Staff

A two-week experience in a public school, taken at the opening of the public school year in September, consisting primarily of observation and participation in the total school program with emphasis upon the grade level or subject of primary interest to the student. This experience must be arranged through the Office of the Director of Student Teaching and with the administrative approval of the public school system. Prereq., sophomore standing.

280. OBSERVATION AND PARTICIPATION

(3) Evans and Staff

An experience in a public school or campus school during a regular University session. Prereq., junior standing and permission.

281. STUDENT TEACHING IN THE SECONDARY SCHOOLS

(2 to 12) Evans and Staff

Prerequisites indicated in College of Education section of catalog.

288. STUDENT TEACHING SEMINAR

(3) Staff

A discussion of problems encountered by the student teacher in his daily classroom experiences. Particular emphasis is given to planning, evaluation, classroom management, and pupil adjustment. This course is taken concurrently with 272 by all students in elementary education. Students in secondary education may take this course concurrently with 281 by permission of the Director of Student Teaching.

472. LABORATORY SCHOOL PROBLEMS

(2) Staff

Prereq., permission.

473. SUPERVISION OF STUDENT TEACHING

(2 to 6) Staff

Designed to prepare students for the work of the supervising teacher in a college or university. Prereq., permission.

GENERAL EDUCATION**125. THE PURPOSES AND PRACTICES OF EDUCATION**

(3) Lynn

An introductory survey of the American public school system at all grade levels; objectives, curricular problems, guidance, organization, and administration as they affect the teacher. Not open to students who have had 130. Prereq., second semester sophomore standing.

241. AUDIO-VISUAL TEACHING AIDS

(2) Staff

Sources, selection, and use of audio-visual aids in instruction; their integration in the school program; selection, operation, and maintenance of equipment.

358. WORKSHOP IN ECONOMIC EDUCATION

(1 to 3) Forbes

A study of basic economic concepts and practical economic problems with the view to their integration into the school curriculum. Prereq., permission. (Summer and Extension only.)

359. GENERAL CURRICULUM

(3) Milliken

A critical study of the public school curriculum including a review of curriculum theories, practices, and trends in grades kindergarten through twelve. Special emphasis is given to problems in curriculum development and organization. Prereq., 211 or 229 and permission.

388. CONSERVATION EDUCATION WORKSHOP

(5) Staff

A field course designed primarily for teachers in service. Relationships between conservation and the natural sciences primarily for the elementary and junior high school teacher. Approval of adviser. (Summer only.)

416. READINGS AND RESEARCH IN HUMAN DEVELOPMENT (3) Fuller

Interpretation of the scientific literature on human development as related to classroom experience in kindergarten through the twelfth grade. Independent projects delineating the developmental bases for understanding and solving selected educational problems. Lectures, discussions, reports, special observations. Prereq., 303 or permission.

428. ADVANCED PRINCIPLES OF TEACHING (3) Fuller, C. Roberts

A critical appraisal of teaching in the light of available research on learning and teaching. Prereq., permission.

450. HIGHER EDUCATION (3) Staff

A survey of the background and growth of higher education in the United States. Present status of various types of institutions will be studied. Prereq., permission.

474. THE ADMINISTRATION OF TEACHER EDUCATION (3) Benz

A course designed to give prospective workers in the field of teacher preparation an introduction to some of the most important problems in the area. Principal emphasis will be on the organization and administration of teacher education, and on the curriculum for the preparation of teachers. Prereq., permission.

478. SEMINAR IN EDUCATION (2) Staff

Advanced studies of special problems in elementary education, guidance, secondary education, and school administration. Prereq., permission.

479. COMPARATIVE EDUCATION (3) Ray

A study of the educational systems of various countries and the extent to which they meet the needs of the people. Prereq., 6 hrs. education or history or government, and permission.

491-492. ADVANCED SEMINAR IN EDUCATION (3-3) Staff

Current literature and advanced research in education. Individual reports and discussion. Required of first year post-master's students. Prereq., permission.

GUIDANCE AND COUNSELING**360. GUIDANCE PRINCIPLES (3) Staff**

The need for guidance in the schools, the nature of guidance, and the major guidance services. Prereq., 6 hrs. and Psych. 5.

361. GUIDANCE PRACTICE (1 to 3) Staff

Directed practice in counseling and other guidance services. Prereq., 360 and permission.

362. INFORMATION SERVICE IN GUIDANCE (2) Hill

The collection, evaluation, and use of occupational, educational, and related information in the guidance program. Prereq., 360.

363. INDIVIDUAL ANALYSIS IN GUIDANCE (3) D. A. Green

Use of cumulative records, case study procedures, sociometric tests, group processes and the like in guidance. Synthesis of information about the client. Prereq., 381 or equiv.; a course in measurement.

364. COUNSELING IN SCHOOLS (3) D. A. Green, Hill

Basic principles of counseling in an educational context. Development of sound procedural bases for counseling and educationally-oriented counseling theory. The ethics of counseling. Prereq., 360 and permission.

461. WORKSHOP IN GUIDANCE

(1 to 3) Staff

Concentrated study program for school workers with special attention to guidance problems in the participants' schools. Prereq., 360 and permission. (By special arrangement in Summer and Extension only.)

462. FIELD EXPERIENCE IN GUIDANCE

(2 to 4) Staff

Supervised field work. Periodic campus conferences and visitations are required. Prereq., 361 and permission.

464. COMMUNITY RESOURCES AND RELATIONS IN GUIDANCE

(3) Staff

The legal bases for guidance work, community resources for guidance, relations of school to home, social service agencies, and the like. Prereq., 360.

465. GROUP GUIDANCE: MATERIALS AND PROCEDURES

(3) Hill

The theoretical bases for group work in guidance. Materials and teaching procedures for group work. Laboratory work in Guidance Laboratory and Materials Center. Prereq., 360, 362.

467, 468. ADVANCED PRACTICUM IN GUIDANCE

(2 to 5, 2 to 5) D. A. Green, Hill

Directed practice in counseling, pupil analysis, evaluation, group procedures and the like. Work in the Guidance Laboratory and, in some cases, in cooperating schools. Prereq., post-master's standing and permission.

HISTORY AND PHILOSOPHY

350. THE HISTORY OF EDUCATION

(3) Shoemaker

Studies the agencies of education and the social forces which have conditioned them during ancient, medieval, and modern times. Prereq., 6 hrs., Psych. 5.

351. THE SCHOOL IN THE SOCIAL ORDER

(3) Shoemaker

Education in the United States from the colonial period to the present. The social, political, economic, religious, and philosophical foundations which have conditioned the evolution of the public schools. Prereq., 6 hrs., Psych. 5.

353. THE EVOLUTION OF EDUCATIONAL THOUGHT

(3) Shoemaker

Deals solely with the educational writings of such theorists as Plato, Aristotle, Quintilian, Montaigne, Locke, Comenius, Rabelais, Rousseau, Pestalozzi, Froebel, Herbart, and Dewey. Prereq., 6 hrs., Psych. 5.

354. PHILOSOPHY OF EDUCATION

(3) Shoemaker

A comparison of pragmatism, idealism, and realism as philosophical bases for education. Each student is helped to formulate his philosophy of education. Prereq., 6 hrs.

LIBRARY SCIENCE

(See Library Science)

RESEARCH AND SCIENTIFIC TECHNIQUES

381. EDUCATIONAL STATISTICS

(3) Sligo

The tabulation and graphical representation of frequency tables, measures of central tendency, percentiles and percentile curves, measures of variability, probability and the normal curve, and correlation. Prereq., 6 hrs., Psych. 5.

382. ADVANCED EDUCATIONAL STATISTICS (3) Sligo

Nonlinear relations, partial correlation, multiple correlation, regression, transmutation of scores, reliability, and the interpretation of correlation coefficients. Practice in the use of logarithms, statistical tables, and calculating machines. Prereq., 381.

385. EDUCATIONAL MEASUREMENTS (3) Sligo

The improvement of the essay examination; criteria for evaluating tests; teacher-made objective tests; standardized tests; elementary statistical procedures. Prereq., 6 hrs., Psych. 5.

483. RESEARCH IN EDUCATIONAL STATISTICS (1 to 6) Sligo

An advanced course in statistics dealing with the derivation of formulae, the analysis of relationships, and the interpretations of results. Prereq., 382 and permission.

484. RESEARCH IN EDUCATION (1 to 6) Staff

Prereq., 9 hrs., Psych. 5, and permission.

488. INTRODUCTION TO GRADUATE STUDY (3) Staff

Methods of research in education and the selection, planning, and evaluation of research problems. The history and purposes of graduate education. Required of all graduate students in education. Prereq., permission.

495. THESIS OR DISSERTATION (As recommended by department) Staff

Prereq., permission.

SCHOOL ADMINISTRATION AND SUPERVISION**335. WORKSHOP IN ELEMENTARY SCHOOL ADMINISTRATION (2) Staff**

This workshop will consider current problems in the administration of elementary schools. Extensive use will be made of the library resources and of the materials in the Center for Educational Service. Students in this course will attend lecture sessions throughout the morning period and will work in small groups in the afternoons. Lecturers from the field of elementary education and from related fields will be utilized in making the course sufficiently broad to meet the demands and interests of the participants. A paper, treating an area of particular interest to the individual student, will be a requirement of the course. Prereq., for graduate credit—12 hrs., including course work in administration; for undergraduate credit—9 hrs., including course work in administration.

340. SCHOOL PUBLIC RELATIONS (2) Staff

The function of public relations in school administration in public understanding of the school's work, development of the media for effective communication, and furthering lay participation in determination of school policy. Prereq., 6 hrs., Psych. 5.

410. ADMINISTRATION OF THE ELEMENTARY SCHOOL (3) Shuster

The responsibilities of both teachers and principal in democratic administration in such areas as curriculum construction, supervision, plant management, public relations. Practical problems used as a basis of study. Prereq., 6 hrs., including 440.

430. HIGH SCHOOL ADMINISTRATION

(3) Lynn

The program of studies, the program for health, vocational education, guidance, extracurricular activities, provisions for individual differences, the selection and assignment of teachers, and the school schedule. Prereq., 6 hrs., including 440.

440. GENERAL SCHOOL ADMINISTRATION

(3) Hicks, Krantz

An introduction to educational administration, including the historical background, the administrative tasks and processes, the administrative relationships to people and to situations, and the competencies and qualifications required.

441. STATE, NATIONAL, AND INTERNATIONAL SCHOOL ADMINISTRATION

(3) Hicks, Krantz

Emphasis on state, national, and international school administration, including the state program of education, state responsibility, educational organization, certification and tenure, national educational services, federal relations to education, national problems in education, and international relations to education. Prereq., 440.

442. SCHOOL FINANCE

(3) Chase, Ray

Local, state, and federal finance, with problems in the financing of schools; business management in such areas as the school budget, financial reports, school purchasing, transportation, and insurance. Prereq., 6 hrs., including 440.

443. SCHOOL LAW

(3) Bean, Crowell

The constitutional basis for education, schools and their legal setting, and school legislation and court decisions, with special reference to Ohio school law. Prereq., 440.

445. SCHOOL BUILDING PLANNING

(3) Chase

The planning of new school buildings and sites, plant evaluation, rehabilitation, maintenance problems, and school equipment. Prereq., 440.

446. SUPERVISION OF INSTRUCTION

(3) Felsing, Shuster

The principles underlying democratic supervision and techniques which promote the growth of teachers in service. Laboratory experiences in analysis of teaching situations. Prereq., permission.

447. PERSONNEL PROBLEMS IN THE PUBLIC SCHOOLS

(3) Krantz

Designed to prepare administrators to meet their personnel problems, including the underlying philosophy of personnel administration, development of policies covering selection, classification, certification, tenure, contracts, in-service training programs, and placement of teaching and non-teaching personnel in the schools. Prereq., 12 hrs.

448-449. ADVANCED THEORY AND PRACTICES OF SCHOOL ADMINISTRATION

(3-3) Hicks

Concepts and processes of administration; theory and organization of public education in the United States; the administrator and community relationships, the educational program, personnel, funds and facilities; professional orientation and counseling; legal aspects, communication skills. Prereq., 9 hrs. of school administration courses and permission.

451. ADVANCED SCHOOL BUSINESS ADMINISTRATION

(3) Hicks

The role of business administration in public education: principles and practices of auditing, budget preparation and control, debt service insurance, legal aspects, payroll administration, personnel administration, plant operation and maintenance, purchasing, school plant planning, and supply management. Prereq., 442 and permission.

ELECTRICAL ENGINEERING—See Engineering**ENGINEERING**

Dean E. J. Taylor

Professors P. H. Black, Quisenberry, Shermer
 Associate Professors Thomas, Lausche, Badger, Selleck,
 G. E. Smith, Curry, Hicks, Nellis, Wickham
 Assistant Professors Hoffee, Barnhill, Lindley,
 Russ, Ralph D. Smith, Mayer, Kaneshige,
 Bjerre, Sarchet, Jen, Hacker, Sorensen
 Instructors Rogers, Lash, Poulsen, Chen
 Acting Instructors Essman, Horvath, Russell D. Smith
 Lecturer Cartland

ENGINEERING**229. REVIEW OF ENGINEERING FUNDAMENTALS (1 to 3) Staff**

A review of the fundamental engineering subjects with emphasis on the type of questions usually asked on the Ohio State Professional Engineers examination. The first half of the course covers general engineering subjects and the second half, a specific field. Credit not counted toward degree. Prereq., permission.

380. COLLOQUIUM (1) Staff

A series of lectures mainly by speakers outside of the engineering field on cultural and professional subjects with discussion moderated by the speaker. Prereq., senior standing. (2nd sem., yearly.)

381. RESEARCH (1 to 6) Staff

Prereq., approval by chairman of department in which work is performed.

390. SPECIAL INVESTIGATIONS IN ENGINEERING (1 to 3) Staff

Individual work or work in small groups, under guidance, in research or advanced study in a particular field of engineering. Maximum credit in course, 6 hrs. Prereq., approval by chairman of department in which work is performed.

391. SEMINAR (1 to 3) Staff

Prereq., approval by chairman of department in which work is performed.

495. THESIS (1 to 6) Staff

Prereq., approval by chairman of department in which work is performed.

ENGINEERING GRAPHICS

(Mr. Nellis, chairman)

1-2. ENGINEERING DRAWING (2-2) Staff

Freehand lettering, use of instruments, geometric constructions, freehand drafting, orthographic, projection, auxiliary and sectional views, dimensioning. Isometric, oblique, detail and assembly drawing. Intersections, developments, tracings and blue prints. Working drawings made from actual machine parts are dimensioned in the accepted American Standard method. 6 lab.

3. THE SLIDE RULE (1) Staff

Prereq., Math. 15.

15. INDUSTRIAL ARTS DRAWING

(3) Wickham

Pictorial methods, working drawings, gears, cams, screws, fastenings, architectural drawings, delineation, perspective, mechanical lettering, related information and special instruments of interest to teachers of mechanical drawing. 9 lab. Prereq., 1. (2nd sem., yearly.)

21. DESCRIPTIVE GEOMETRY

(2) Staff

Problems relating to points, lines, planes, solids, and their projections, space visualization, curved surfaces, intersection of planes and solids, model making, practical applications. Daily exercise sheets. 1 lec., 2 lab. Prereq., 1.

102. DESCRIPTIVE GEOMETRY

(2) Thomas

Practical applications of the representation, intersection and development of plane surfaces. Double curved surfaces as used in ship, automobile, and aircraft construction are included. Daily exercise sheets. 1 lec., 2 lab. Prereq., 21. (2nd sem., yearly.)

115. MACHINE DRAFTING

(3) Nellis

Standard and basic representations as applied to commercial drafting and their application to detail and assembly drawings. 6 lab. Prereq., 2. (1st sem., yearly.)

122. NOMOGRAPHY

(2) H. Rogers

Fundamentals of graphical solutions of equations by means of nomograms and alignment diagrams. 2 lec. Prereq., 1, Math. 15. (2nd sem., yearly.)

CHEMICAL ENGINEERING

(Dr. Curry, chairman)

101. INTRODUCTION TO CHEMICAL PROCESS PRINCIPLES AND EQUIPMENT

(3) Staff

The application of chemistry, physics, and elementary thermodynamics to the solution of typical industrial problems. Prereq., Chem. 109, Math. 101.

201. INTERMEDIATE CHEMICAL ENGINEERING CALCULATIONS (3) Staff

A continuation of 101 with particular application of thermodynamics to chemical engineering problems. Prereq., 101, Math. 102.

211. MATERIALS AND METALLURGY

(3) Staff

An introductory course for engineers. Fundamental metallurgical theory, including physical properties of metals and alloys. Prereq., C.E. 222 or with C.E. 222.

220. THERMODYNAMICS AND KINETICS

(3) Staff

Study of thermodynamics and elementary kinetic theory. Generalized design of chemical reactors. Prereq., 101, 201.

310-311. UNIT OPERATIONS

(3-3) Staff

A study of the fundamental principles of fluid flow, heat transfer and other basic unit operations with problems to illustrate the principles. Prereq., 101, 201, Chem. 313 (for 310), Chem. 314 (for 311).

312. UNIT OPERATIONS LABORATORY

(2) Staff

Laboratory practice to illustrate the principles of selected unit operations and unit processes and to aid students in gaining confidence in the handling of pilot plant equipment. Development of ability to devise workable procedures and to conduct experiments with minimum supervision is stressed. Improvement of skill in oral and written reporting is a parallel objective. 4 lab. Prereq., 310 and with 311 and 320.

320. UNIT PROCESSES

(3) Staff

Investigation of typical industrial chemical processes with respect to the unit steps such as nitration, sulfonation, reduction and hydrolysis, which arranged in varying sequence constitute the processes. Consideration is also given to sources of raw material and energy, to types of equipment, and to the role of economics. Prereq., 310.

340. DESIGN AND INSTRUMENTATION

(5) Staff

Project work involving chemical process design, including evaluation and extension of fundamental data by calculation, choice of operating conditions, estimation of costs, selection of equipment, and the application of automatic controls. 3 lec., 4 lab. Prereq., senior standing; 311, 320, Chem. 314.

CIVIL ENGINEERING

(Dr. Shermer, chairman)

10. PLANE SURVEYING

(3) Staff

Basic theory underlying field measurements for engineering work. The theory is supplemented by field work in which the student gains proficiency in the use of surveying instruments. 2 lec., 3 lab. Prereq., Math. 14 or 15 or equivalent.

120. APPLIED MECHANICS

(3) Badger, Russ

Laws of equilibrium of forces; friction; centroids and moment of inertia. Prereq., Math. 101 or with Math. 101.

121. APPLIED MECHANICS

(3) Badger, Lindley

Motion of a particle and of rigid bodies. Work and energy; impulse and momentum. Prereq., 120, Math. 102 or with Math. 102.

213. ADVANCED SURVEYING

(3) Staff

Application of surveying principles to topographic mapping. Field application of the principles of route engineering. 9 hrs. lab. Prereq., 10, with 260.

222. STRENGTH OF MATERIALS

(3) Badger, Russ

Elementary stresses and strains, torsion, flexure including elastic curve equations, columns, combined stresses, stresses due to impact. 3 lec., 2 lab. Prereq., 120, Math. 102 or with Math. 102.

223. MATERIALS TESTING LABORATORY

(1) Badger

A series of experiments on the tensils, compressive, and shearing strengths of the principal engineering materials. 2 hrs. lab. Prereq., with 222.

224. FLUID MECHANICS

(3) Lash

Fundamental principles of the mechanics of fluids and their application to engineering. Fluid pressure, flow in orifices, weirs, pipes, and open channels; elementary theory of pumps and turbines. Prereq., 121 or with 121.

225. SOIL MECHANICS

(3) Lindley

Theories of soil-mass behavior as related to foundation and earth structure design. 2 lec., 2 lab. Prereq., 222.

228. STRENGTH OF COMPOSITE SECTIONS

(2) Lindley

Determination of stresses in structural units composed of two or more different materials, with application to reinforced concrete members. Prereq., 222.

230. STRUCTURAL ANALYSIS I (4) Russ, Shermer
Application of the laws of static equilibrium to the analysis of forces in component parts of engineering structures. Prereq., 120.

231. STRUCTURAL DESIGN I (4) Shermer
A study of the design of structural members in steel and other metals. Prereq., 222, 230.

240. HYDRAULICS LABORATORY (1) Lash
Experimental study of orifices, weirs, flow in pipes and channels; hydraulic jump; turbines; pumps. 2 lab. Prereq., 224 or with 224.

241. HYDROLOGY (2) Staff
A study of precipitation data, relationship between rainfall and runoff, with applications to irrigation, flood control, erosion control, and municipal and industrial water supply. Prereq., 224.

249. WATER SUPPLY ENGINEERING (3) Kaneshige
Source, treatment, and delivery of pure water. Theory of design and construction of various types of water purification plants. Prereq., 224, 241.

250. SEWERAGE AND SEWAGE TREATMENT (3) Kaneshige
Collection, treatment, and disposal of sanitary and industrial wastes. Theory of design and construction of various types of sewage disposal processes. Prereq., 224.

260. ROUTE ENGINEERING (2) Staff
Theory of simple and compound curves, spiral easements, vertical curves, earthwork quantities, construction methods and tracks as applied to transportation routes. Prereq., 10.

261. HIGHWAY -ENGINEERING (3) Staff
Materials, drainage, alinement, capacity, and finance as used in construction, maintenance, and operation of the modern highway. Prereq., 260.

270. ENGINEERING ECONOMY (3) Russ
Economy studies for proposed new enterprises, replacement of existing machines or structures, break-even and minimum cost points, planning for growth, and economy studies for public works. Course open to junior or senior engineering students only, except by permission.

313. ADVANCED SURVEYING PROBLEMS (2) Staff
Principles and practices in calculations for azimuth, latitude, and longitude by observations on Polaris and the sun with the transit. Land surveying problems, contour lines, use of the plane table. 1 lec., 3 lab. Prereq., 213.

314. PHOTOGRAMMETRY (3) Staff
Equipment and methods used in aerial photography. Use of map-making equipment and study of specialized equipment used by private aerial survey organizations and government agencies. Prereq., 213.

324. ADVANCED FLUID MECHANICS (3) Lash
A comprehensive treatment of fluid state and flow, water hammer, and hydraulic machinery, with engineering applications. Prereq., 224.

326. ADVANCED STRENGTH OF MATERIALS (3) Badger
Curved bars; stresses in flat plates; buckling of bars, plates, and shells; theories of strength. Prereq., 222, Math. 315.

328. THEORY OF ELASTICITY

(3) Lindley

Theorems relating to stress-strain relationships for elastic materials. Two-dimensional and three-dimensional stress-strain analyses. Torsion and bending of prismatical bars. Theories of failure. Prereq., 222, Math. 315, permission.

329. THEORY OF STABILITY

(3) Shermer

Buckling of members under lateral and transverse loads. Effect of eccentric loads and beam curvature. Buckling of truss members. Prereq., 222, Math. 315, permission.

330. STRUCTURAL ANALYSIS II

(4) Russ, Shermer

Theory of analysis of structures for which the conditions of static equilibrium are not sufficient to obtain a solution. Prereq., 222, 230.

331. STRUCTURAL DESIGN II

(3) Lindley

A study of the design of reinforced concrete members and structures, and a continuation of steel design. Prereq., 228, 231, 330 or with 330.

332. STRUCTURAL DESIGN III

(3) Shermer

Design of indeterminate structures. Modern design concepts and principles as applied to various construction materials. Prereq., 331, permission.

335. LABORATORY METHODS OF STRUCTURAL ANALYSIS

(3) Russ

Model analysis of rigid frames by means of deformeters. Use of strain gages, stress coats, and deflection gages for stress analysis. Use of photoelastic equipment. 2 lec., 2 lab. Prereq., 330, permission.

340. STRUCTURAL ANALYSIS III

(3) Shermer

Analysis of indeterminate structures by both classical and modern methods. Analysis of multistory bents, arches, closed rings, and frames with variable cross-sections. Prereq., 330, permission.

341. STRUCTURAL ANALYSIS IV

(3) Shermer

Continuation of 340. Prereq., 340.

349. ADVANCED WATER TREATMENT

(3) Kaneshige

Advanced study of water treatment theory. Design of treatment units. Practice in control methods. 2 lec., 2 lab. Prereq., 249, permission.

350. ADVANCED SANITARY ENGINEERING

(3) Kaneshige

Advanced study of sewage treatment theory. Design of treatment units. Practice in control methods. 2 lec., 2 lab. Prereq., 250, permission.

For other advanced courses in Civil Engineering, see **ENGINEERING**.

ELECTRICAL ENGINEERING

(Dr. Quisenberry, chairman)

103. BASIC ELECTRICAL ENGINEERING

(5) Essman, Hoffee

Basic concepts of D.C. circuits, Kirchoff's laws, network theorems, bridges, potentiometers, D.C. circuit analysis, potential dividers, D.C. measurements, force on conductors, elements of magnetic theory, batteries and electro-chemistry. 3 lec., 2 lab. and 2 computation. Prereq., Math. 101 or with Math. 101.

104. BASIC ELECTRICAL ENGINEERING

(5) Essman, Hoffee

Basic concepts of A.C. currents, voltage, power, inductance and capacitance. Single-phase circuit analysis, complex operators, and vector diagrams. Instruments and measurements. Oscilloscope, oscillograph, and frequency measurements. D.C. time constants. Elements of polyphase circuits. 3 lec., 2 lab. and 2 computation. Prereq., 103 and with Physics 114.

201. CIRCUITS AND MEASUREMENTS

(4) Essman, Horvath

Direct current circuits and measurements, magnetic circuits and measurements, alternating current circuits and measurements, single-phase and three phase. Not open to Electrical Engineering majors. 3 lec., 2 lab. Prereq. Math 102, Physics 113-114.

202. ELECTRICAL MACHINERY

(3) Essman, Horvath

Direct and alternating current machinery. Not open to Electrical Engineering majors. 2 lec., 2 lab. Prereq. 201.

301-302. COMMUNICATION ENGINEERING

(4-4) Cartland, Hacker

A study of the fundamentals of communication engineering at radio and telephone frequencies. Network theorems, resonance, transmission lines, filters, and coupled circuits. Impedance matching, amplifiers, modulators, radiation, and applications to radio and telephone apparatus. 3 lec., 2 lab. Prereq., 104, 308.

303-304. ELECTRICAL MACHINES

(4-4) Selleck

Characteristics and performance of direct and alternating current motors and generators and single and polyphase static transformers. 4 lec., 2 lab. Prereq., 103-104.

307-308. ENGINEERING ELECTRONICS

(3-3) Smith

A comprehensive theoretical and practical treatment of the fundamentals of electronics and the general properties of electron tubes with application to engineering. 2 lec., 2 lab. Prereq., Math. 102, E.E. 104.

309. APPLIED ELECTRONICS

(3) Cartland

Fundamental network analysis, vacuum and gas diodes, triodes, welding timers and pulse circuits, induction heating, industrial electronic control, magnetic-amplifiers, strain gages. Not open to Electrical Engineering majors. 2 lec., 2 lab. Prereq., 201.

310. SEMICONDUCTORS

(3) Bjerre

Physics of semiconductors. Transistor equivalent circuits, amplifiers, oscillators, modulation and detection. 2 lec., 2 lab. Prereq., 308 or with 308.

321-322. HIGH FREQUENCY TECHNIQUES

(3-3) Hoffee

Application of electronic and communication principles to high frequency circuits and a study of electromagnetic radiation and antennae. Prereq., 308 or 202 and 309 or permission.

323, 324. ADVANCED RADIO LABORATORY

(1 to 4, 1 to 4) Hoffee

Special problems of current interest in the field of radio engineering. 2 to 8 labs. Prereq., 104.

328. ILLUMINATING ENGINEERING

(3) Cartland

Principles of light and radiation; various light sources, their characteristics and efficiencies; principles and practice of photometry; design of illumination for various types of homes and industries. Laboratory gives practice in illumination measurements. 2 lec., 2 lab. Prereq., Math. 102, Phys. 114.

331. SERVOMECHANISMS (3) Quisenberry
Automatic controller design, including the study of viscous output damping, error rate damping, inntegral control, error rate stabilization networks and transfer functions. Prereq., 334.
332. CONTROL OF ELECTRICAL MACHINERY (3) Selleck
Magnetic and electronic motor controllers, including a study of control theory and applications to given problems. Prereq., 201 or 304.
334. ADVANCED CIRCUITS (3) Quisenberry
The Laplace Transform applied to transient solutions of linear systems. Special attention is given to electromechanical systems, including feedback and vacuum tube amplifiers. Prereq., 308 or 309, Math. 315.
335. ELECTRIC AND MAGNETIC FIELDS (3) G. E. Smith
A study of electrical phenomena from the viewpoint of field theory. Prereq., 104, Math. 315.
336. FIELDS AND WAVES (3) G. E. Smith
A continuation of 335. Prereq., 335.
341. ELECTRICAL TRANSMISSION OF POWER (3) Selleck
Economic and electrical principles of transmission of electrical power, line equations and calculations, hyperbolic solution of long lines, insulation and protection against transients, mechanical principles and practical line construction. Prereq., 304, 342.
342. SYMMETRICAL COMPONENTS (3) Quisenberry
Circuits analysis by symmetrical components. Representation of unbalanced polyphase currents and voltages by component symmetrical sets; solution of faults on power systems. Prereq., 304.
344. ELECTRICAL DESIGN (3) Selleck
Fundamental electric machine design relations. After a preliminary study, the student designs a direct current generator, a transformer, and an induction motor and predetermines the performance. Prereq., 304.
- 345-346. PROBLEMS IN ADVANCED A. C. MACHINERY (3-3) Selleck
Problems taken up deal with transient conditions in alternators, motors, and transformers. Applications of the methods of symmetrical components to unbalanced operating conditions. 2 lec., 2 lab. Prereq., 304.
351. INSTRUMENTATION AND MEASUREMENTS (3) Bjerre
A transient analysis of linear electro-mechanical circuitry used in measurements. The Laplace Transformation is required. Prereq., 334.
361. SEMINAR IN ELECTRONIC ANALOG COMPUTERS (1) Quisenberry
A study of the basic principles of analog computation. System response determined by means of the analog computer. Prereq., Math. 315.
401. ELECTRICAL STATION DESIGN (3) Quisenberry
The application of economic principles to the problems of electric generating station design, selection of apparatus, balancing initial and subsequent costs, interrelation of the mechanical and electrical elements of design. Prereq., 304.
403. ADVANCED ENGINEERING ANALYSIS (3) G. E. Smith
The development of a basic philosophy of approach to the analysis and solution of engineering problems. Integrates techniques introduced in previous courses. Prereq., Math. 316 or permission.

405. SYSTEM STABILITY STUDIES

(3) Quisenberry

Studies of technical problems pertaining to power systems. Both synchronous and asynchronous loading are considered. Maximum use is made of digital computer techniques and matrix algebra. Prereq., 304.

410. NETWORK SYNTHESIS

(3) Quisenberry

Realizability and synthesis of driving point impedance; synthesis for prescribed transfer functions, and for a prescribed time response. Prereq., 334, Math. 316.

481. RESEARCH IN ELECTRICAL ENGINEERING

(1 to 4) Staff

Prereq., 15 hrs., permission.

491, 492. ADVANCED SEMINAR IN ELECTRICAL ENGINEERING

(1, 1) G. E. Smith

Topics of general interest to all graduate students in electrical engineering. Prereq., permission.

495. THESIS

(1 to 6) Staff

Prereq., permission.

MECHANICAL ENGINEERING

(Mr. Black, chairman)

113. METAL PROCESSING

(2) Black

Theory of machining and the mechanics of metal cutting; friction, wear, and lubrication in machining. Production processes. Prereq., I.A. 13 and/or with C.E. 120.

201. KINEMATICS

(3) Chen

A study of basic mechanisms including analytical and graphical analyses of linkages, cams, gears, and gear production methods. Prereq., C.E. 121 or with C.E. 121.

221. THERMODYNAMICS I

(3) Poulsen

Energy, heat and work, cycles, reversibility, availability, first and second laws, entropy, real and perfect gases. Laboratory work on application, calibration of gauges, manometers, indicators, tachometers and other instruments. Prereq., Math. 102 and Phys. 113.

222. THERMODYNAMICS II

(3) Hicks

Fluid flow, gas mixtures, combustion calculations, power cycles, and dynamics of compressible flow. Laboratory work on flow meters, calorimetry, fuel and gas analysis, and testing of steam-power units. Prereq., 221.

227. STEAM POWER PLANTS

(3) Lausche

Fuels, principles of combustion, stationary boilers, grates, stokers, furnaces, coal pulverizers, economizers, pre-heaters, superheaters, stacks, forced and induced draft, boiler-feed pumps, steam engines and turbines, and condensers. Prereq., 221 and Math. 102. (1st sem. yearly.)

229. STEAM POWER LABORATORY

(2) Hicks

Testing of engines, turbines, pumps, fans, nozzles, and orifices. Prereq., 222.

231. THERMODYNAMICS I LABORATORY

(1) Hicks

232. THERMODYNAMICS II LABORATORY

(1) Hicks

295. INDUSTRIAL SAFETY

(2) Taylor

The nature, causes, and cost of industrial accidents and occupational diseases. Methods of accident prevention; educational, physical, and supervisory. Improving ambient environment. Regulation and state laws. Prereq., Phys. 114.

302. DYNAMICS OF MACHINERY

(3) Black

Analytical and graphical studies of velocities and accelerations, and of static and inertia forces in machinery; engine force analysis and balancing of machinery. Prereq., 201 and C.E. 121. (2nd sem. yearly.)

303. MACHINE DESIGN I

(3) Black

Application of mechanics, mechanism, materials, and mechanical processes to the design and selection of machine members and units of power transmission. Prereq., 113, 201, 211, and C.E. 222.

304. MACHINE DESIGN II

(3) Black

Application of the work covered in 303 to the design of complete machines and sub-assemblies. 6 lab. Prereq., 303 or with 303. (2nd sem., yearly.)

314. HEAT TRANSFER

(3) Hicks

Basic concepts of conduction, convection and radiation; steady and unsteady states, film coefficients, and dimensional analysis. Prereq., 222. (2nd sem., yearly.)

323. THERMODYNAMIC ANALYSIS I

(3) Hicks

Psychrometrics, vapor-compression and absorption refrigeration, heating and cooling load calculations. Prereq., 222.

324. THERMODYNAMIC ANALYSIS II

(3) Hicks

Detailed analysis of vapor and gas power cycles and of their individual components. Prereq., 222.

381. INDUSTRIAL PLANT DESIGN

(3) Ralph Smith

Semester report covering complete design of an industrial plant for manufacturing a specific product. Includes market survey, manufacturing planning, plant layouts, organization and financial analysis. Prereq., Mgt. 211, 302, and/or with 321.

392. ADVANCED MACHINE DESIGN

(3) Black

Advanced problems in the design and analysis of machine members including consideration of stress propagation; stress analysis; fatigue and creep; mechanical vibration; Coriolis' acceleration; Castigliano's theorem; and graphical analysis. Prereq., 303, permission.

393. LUBRICATION AND FRICTION

(3) Poulsen

Derivation of Reynold's equation and its application to bearings and gear teeth; load capacity and thermal equilibrium. Boundary lubrication, lubricant composition, surface finish, bearing materials and bearing performance. Prereq., Math. 315, C.E. 121, permission. (1st sem., yearly.)

394. MECHANICAL VIBRATIONS

(3) Staff

The characteristic phenomena of mechanical vibrations encountered in machines and structures, and their quantitative investigation. Simple-harmonic motion; combinations of simultaneous motions; free and forced vibration; damping effects; critical speeds; balancing; electro-mechanical analogy; principles of transmission and isolation of vibration; systems of several degrees of freedom; self-excited vibration; instrumentation. 2 lec., 2 lab. Prereq., C.E. 121, Math. 315.

395. ADVANCED THERMODYNAMICS

(3) Hicks

A review of classical thermodynamics, the Maxwell relations, free energy, kinetic equilibrium of combustion. Prereq., 222.

For other advanced courses in Mechanical Engineering, see **ENGINEERING**.

ENGINEERING GRAPHICS—See Engineering**ENGLISH**

Professors Wray, Foster, Kendall, Summers
Associate Professors McQuiston, Lash, Kirchner,
Thompson, Stone (chairman), Whan
Assistant Professors Brown, Hand, Knecht, Pickard, Butterworth,
Swardson, Culbert, Stanton, McDonnell, Morris, Wells
Instructors Kasten, Roe, Lettis, Purdum, Greene, Holmes,
Kaufman, Richer, Marks, Robinson, Nault, Hill,
Meinhold, Burson

The major requirement for the A. B. degree consists of a minimum of 25 hours beyond 3-4 distributed as follows: a) 101, 102; b) 323 or 324; c) at least 6 hours chosen from 311, 312, 321, 322, 331, 332, 371; d) at least 9 hours (so chosen that two centuries are represented) from 341, 342, 351, 352, 353, 356, 357, 358, 361, 362, 368, 372; e) 396.

Qualified students may vary these requirements in order to pursue a major in creative writing.

Outstanding majors in English may (before April 15 of their junior year) submit to the department chairman a written request to follow the honors program during their senior year. In addition to meeting the university requirements for honors work, such students will attend the English Masters Seminar and achieve distinction in the comprehensive examination in English 396.

1. REMEDIAL ENGLISH

(3) Holmes, Staff

The fundamentals of composition. Minimum grade of C required to advance to 3. Credit and points not counted toward a degree. (Each sem.)

3-4. ENGLISH COMPOSITION

(3-3) McDonnell, Staff

A progression from simple expository paragraphs to criticism of literary models. A transfer student who has completed only three hours of English composition, will complete the six hours required by registering for Eng. 3. (Each sem.)

101. SOPHOMORE ENGLISH LITERATURE

(3) Wray, Staff

From the middle ages through the seventeenth century. Emphasis on Chaucer, Shakespeare, and Milton. Prereq., 4. (Each sem.)

102. SOPHOMORE ENGLISH LITERATURE

(3) Wray, Staff

From the eighteenth century to the present. Prereq., 4. (Each sem.)

111. CHIEF AMERICAN WRITERS

(3) Roe, Staff

Franklin, Emerson, Thoreau, Melville, Hawthorne, Poe, Whitman, Dickinson, and others. Prereq., 4. (Each sem.)

112. CHIEF AMERICAN WRITERS

(3) Roe, Staff

Twain, James, Crane, O'Neill, Eliot, Hemingway, Faulkner, Miller, and others. Prereq., 4. (Each sem.)

223. SHAKESPEARE

(3) Wray

The comedies and historical plays. Prereq., 4. (1st sem., yearly.)

224. SHAKESPEARE (3) Wray
The principal tragedies. Prereq., 4. (2nd sem., yearly.)
262. THE CONTEMPORARY ENGLISH AND AMERICAN NOVEL (3) Kendall
Galsworthy, Conrad, Joyce, Woolfe, Dreiser, Wolfe, Huxley, Hemingway, Faulkner, and others. Prereq., 4. (2nd sem., 1960-61.)
263. THE CONTEMPORARY ENGLISH AND AMERICAN DRAMA (3) Butterworth
Wilde, Shaw, Synge, O'Casey, Fry, O'Neill, Anderson, Saroyan, Miller, Inge, Williams, and others. Prereq., 4. (1st sem., 1961-62.)
264. THE TEACHING OF HIGH SCHOOL ENGLISH (3) Brown
The content and presentation of grammar, composition, and literature. Prereq., 4 and junior standing. (Each sem.)
266. THE SHORT STORY (3) McQuiston
Origin and development as a literary form; early masters such as Poe and De Maupassant, and modern classics. Prereq., 4 (2nd sem., 1960-61.)
275. THE ENGLISH AND AMERICAN NOVEL (3) Lettis
Fielding, Austen, Scott, Dickens, Thackeray, Hawthorne, Melville, and others. Prereq., 4. (1st sem., yearly.)
276. THE ENGLISH AND AMERICAN NOVEL (3) Morris
Trollope, Eliot, Twain, James, Hardy, Conrad, Dreiser, Maugham, and others. Prereq., 4. (2nd Sem., yearly.)
277. ENGLISH AND AMERICAN BIOGRAPHY (3) Kendall
The development of biography as a literary form; its technique; and the masterpieces considered in relation to their authors, subject, and social background. Prereq., 4. (1st sem., 1961-62.)
281. THE EUROPEAN NOVEL (3) Lash
Russian, French, German, and Scandinavian novels of the nineteenth and early twentieth centuries in translation. Prereq., 4. (1st sem., 1961-62.)
282. EUROPEAN DRAMA (3) Lash
Translations of Sophocles, Moliere, Ibsen, Rostand, Gorki, Molnar, Pirandello, and others. Prereq., 4. (2nd sem., 1961-62.)
284. MYTHOLOGY IN ENGLISH AND AMERICAN LITERATURE (3) Lash
Greek and Roman myths, especially as found in major English and American writers. Prereq., 4. (2nd sem., yearly.)
285. THE BIBLE AS LITERATURE (3) Foster
The historical books of the Old Testament; other narratives; brief survey of the early poetry and prophecy. Prereq., 4. (1st sem., yearly.)
286. THE BIBLE AS LITERATURE (3) Foster
Prose and poetry from the Old Testament; Jesus; Saint Paul; continuity of Hebrew literary traditions in the Old and the New Testaments. Prereq., 4. (2nd sem., yearly.)
290. CREATIVE WRITING (3) Kendall
Individual work in the writing of fiction and non-fiction—short stories, essays, articles, and verse. Prereq., 4. (Each sem.)

293. ADVANCED COMPOSITION (3) Morris, Staff
The rhetorical and grammatical principles of composition; practical work in a variety of writing problems. Prereq., 4. (Each sem.)
311. HISTORY OF THE ENGLISH LANGUAGE (3) Roe
The growth of the English language; vocabulary and grammar of the various periods; selections from Early English. Prereq., 12 hrs. (1st sem., yearly.)
312. CHAUCER (3) Culbert
Early works; *The Canterbury Tales*; *Troilus and Criseyde*. Prereq., 12 hrs.; 311 recommended. (2nd sem., 1960-61.)
321. SIXTEENTH CENTURY LITERATURE (3) Wray
The English Renaissance and Humanism. Prereq., 12 hrs. (1st sem., 1961-62.)
322. ELIZABETHAN DRAMA (3) Kendall
The English drama from 1550 to 1642: predecessors, contemporaries, and immediate followers of Shakespeare. Prereq., 12 hrs.; or 9 hrs. (including 101) and 3 hrs. dramatic art. (2nd sem., 1961-62.)
323. SHAKESPEARE (3) McQuiston
The comedies and historical plays. Prereq., 12 hrs. (1st sem., yearly.)
324. SHAKESPEARE (3) McQuiston
The tragedies and the sonnets. Prereq., 12 hrs. (2nd sem., yearly.)
331. SEVENTEENTH CENTURY LITERATURE (3) Foster
Donne, Bacon, Herrick, Browne, Bunyan, and the Restoration. Prereq., 12 hrs. (1st sem., 1960-61.)
332. MILTON (3) Foster
Prose, minor poetry, *Paradise Lost*, *Paradise Regained*, and *Samson Agonistes*. Prereq., 12 hrs. (2nd sem., 1960-61.)
341. EIGHTEENTH CENTURY LITERATURE (3) Whan
Pope, Swift, Gay, Defoe, Addison, Steele; the novel; the drama. Prereq., 12 hrs. (1st sem., 1961-62.)
342. EIGHTEENTH CENTURY LITERATURE (3) Whan
Boswell, Goldsmith, Sheridan, Gray, Cowper, and others. Prereq., 12 hrs. (2nd sem., 1961-62.)
351. POETRY OF THE ROMANTIC PERIOD (3) Kendall
The philosophical background; Wordsworth, Coleridge, Byron, Shelley, Keats. Prereq., 12 hrs. (1st sem., 1960-61.)
352. VICTORIAN POETS (3) Kirchner
Tennyson, the Brownings, Arnold, Swinburne, and others. Prereq., 12 hrs. (2nd sem., 1960-61.)
353. ENGLISH PROSE OF THE NINETEENTH CENTURY (3) Wray
Lamb, Hazlitt, DeQuincey, Coleridge, Carlyle, Newman, Ruskin, and others. Prereq., 12 hrs. (1st sem., 1960-61.)
356. EMERSON, THOREAU, AND THE CONCORD GROUP (3) Kirchner
The lives and writings of the more important Transcendentalists. Prereq., 12 hrs., including 111. (2nd sem., 1961-62.)

357. AMERICAN MASTERS (1800-1860) (3) Stone
The foreign background; Hawthorne, Melville, and Poe. Prereq., 12 hrs. (1st sem., 1961-62.)
358. AMERICAN MASTERS (1860-1900) (3) Stone
The foreign background; James, Twain, and Whitman. Prereq., 12 hrs. (2nd sem., 1961-62.)
361. TWENTIETH CENTURY FICTION (3) Stone
Joyce, Faulkner, Lawrence, Hemingway, and others. Prereq., 12 hrs. (1st sem., yearly.)
362. TWENTIETH CENTURY DRAMA (3) Thompson
Shaw, O'Neill, Anderson, Williams, O'Casey, and others. Prereq., 12 hrs. (2nd sem., 1960-61.)
368. TWENTIETH CENTURY POETRY (3) Foster
Eliot, Auden, Frost, Thomas, and others. Prereq., 12 hrs. (2nd sem., 1961-62.)
371. HISTORY OF LITERARY CRITICISM (3) Thompson
From Aristotle to the present. Prereq., 12 hrs. (1st sem., 1961-62.)
372. PRACTICAL LITERARY CRITICISM (3) Thompson
Readings in contemporary criticism and preparation of critical papers. Prereq., 12 hrs., including 371, permission. (2nd sem., 1961-62.)
390. STUDIES IN ENGLISH (1 to 3) Staff
Directed individual reading and research. (See also the Honors Program.) Maximum credit, 6 hrs. Prereq., 12 hrs., permission of chairman. (Each sem.)
- 391-392. MASTERS SEMINAR (1-1) Thompson
Problems of research and criticism in relation to theses in progress. Required of Honors Program majors and of candidates for the M.A. degree in English. (Yearly.)
- 393-394. CREATIVE WRITING SEMINAR (3-3) Kendall
Criticism of manuscripts and discussion of problems of form. Required of candidates for the M.A. degree in creative writing in lieu of the research thesis. Prereq., 290 or equivalent, permission. Admission only in the first semester, except for unusual reasons. (Yearly.)
396. SENIOR SURVEY (1) Stanton, Staff
Weekly lectures covering the entire range of English and American literature. Required of, and limited to, senior English majors in the College of Arts and Sciences. (Each sem.)
401. BIBLIOGRAPHY AND THESIS WRITING (3) Staff
Introduction to basic reference works, professional journals, and bibliographies. Assigned exercises in methodology. Required of all candidates for the M.A. degree in English. (2nd sem., yearly.)
470. SEMINAR IN LITERARY PROBLEMS (3) Staff
Intensive study of an author, group, or form. Maximum credit, 6 hrs. (Yearly.)
481. ORIENTATION IN TEACHING COLLEGE ENGLISH (1) Culbert
Supervised instruction in teaching Freshman Composition and Sophomore Literature. Open only to graduate interns. (1st sem., yearly.)

482. COMPOSITION AND RHETORIC

(2) Culbert

The theories of grammar, syntax, diction, logic, style, etc. Systematic analysis of pertinent textbooks. Open only to graduate interns. (2nd sem., yearly.)

495. THESIS

(1 to 6) Staff

Prereq., permission. (Each sem.)

FINANCE

Professor Cherrington (chairman)

Associate Professor Fichthorn

75. PERSONAL FINANCE

(2) Cherrington

Considered are such subjects as installment purchases, savings accounts, savings bonds, borrowing, life insurance, annuities, buying a home, investments in securities, investment companies, and taxes. Prereq., not open to juniors and seniors nor to students working toward the Bachelor of Science in Commerce degree.

101. FINANCIAL INSTITUTIONS

(3) Staff

Commercial banking, consumer credit, long-term funds for business, security exchanges, savings institutions, insurance, investment companies, urban real estate financing, farm credit, and the Federal Reserve System. Prereq., Ec. 12 or 102, or permission.

121. CORPORATION FINANCE

(3) Staff

Stocks and bonds; financing industrial, public utility, and railroad companies; investment banking, securities markets, short-term financing, dividend policies, expansion and combination, refinancing, recapitalization, and reorganization. Prereq., 101 and Acct. 76.

305. INVESTMENT PRINCIPLES

(3) Cherrington

Information for individual investors which can be used in the management of personal investment problems. Among the topics to be considered are investment risks and how they can be handled, yields, analysis of financial statements, and securities markets and their behavior. Prereq., 121.

306. SECURITY ANALYSIS

(3) Fichthorn

The problems of selection or sale of securities for investment purposes. Industry structure, volume-price-cost relationships, management, financial position, terms of the security contract, and market price behavior are studied to determine the attractiveness of a security. Construction of portfolios for individual investors is considered briefly. Report writing and case discussion. Prereq., 305 or permission.

312. CREDIT AND COLLECTION MANAGEMENT

(3) Fichthorn

The process of extending credit to business firms and of collecting outstanding indebtedness. Subjects covered include financial statement analysis, types of credit information and its evaluation, policies for extending credit, determining credit limits, collections, and credit department organization and administration. Emphasis is on mercantile and bank credit. Report writing and case discussion. Prereq., 121.

315. PROPERTY AND CASUALTY INSURANCE

(3) Fichthorn

Analysis of the principal types of property and casualty insurance policies with respect to protection afforded the policyholder, his obligations, and cost of protection. Policies studied include fire and extended coverage, allied lines, business interruption, inland marine, automobile, general liability, theft, and bonds. The subjects of risk, insurance-law, industry organization, and multiple-peril policies are also covered. Prereq., 121.





316. LIFE INSURANCE

(2 or 3 as scheduled) Staff

The fundamental economics of life insurance. The principles and practices of life insurance including types of contracts, group and industrial insurance, annuities, etc. Prereq., Ec. 12 or 102 or permission.

341. MONEY AND BANKING

(3) Fichthorn

The basic concepts of money, credit, and exchange with emphasis on bank credit expansion by the Federal Reserve and commercial banks, and a study of monetary policies followed by the Federal Reserve and Treasury. A historical study of the development of the monetary system of the United States. Prereq., 121 or 12 hrs. economics.

351. MONETARY THEORY

(3) Staff

A study of the theories advanced to explain the relationship between money and its value, the relationship between money and the level of economic activity, allocations of funds among alternate uses, and interest and interest rates. Prereq., 341 or permission.

356. PROBLEMS IN CORPORATION FINANCE

(3) Cherrington

This course is developed through the use of cases which deal with short-term financing, long-term financing, reserve and dividend policies, expansion and combination, refunding, recapitalization, and reorganization. Prereq., 121.

381. RESEARCH IN FINANCE

(1 to 8) Staff

Prereq., 9 hrs., Ec. 12 or 102, permission.

391. SEMINAR IN FINANCE

(2 to 4) Staff

Maximum credit in course, 10 hrs. Prereq., 9 hrs., Ec. 12 or 102, permission.

495. THESIS

(1 to 6) Staff

Prereq., permission.

Additional course: Ec. 315—Public Finance.

FINE ARTS

General courses in the history and appreciation of the fine arts are open to all students who wish to broaden their knowledge of the field. Advanced courses are listed under the offerings of the various departments.

The minor requirements for the B.F.A. degree may be fulfilled by completing 18 hours in the following courses, including F.A. 17-18.

17-18. INTRODUCTION TO THE FINE ARTS

(3-3) Bergsagel, Larson, Olpp, Seigfred

Analysis of the form, media, and content of the major arts stressing interrelationship of architecture, the dance, dramatic art, music, literature, and painting through recognition of common art factors.

121-122. HISTORY OF PAINTING AND SCULPTURE

(3-3) Olpp

Periods, styles, and great personalities from early times to the present. Analysis of aesthetic qualities in masterpieces of art.

123-124. HISTORY OF MUSIC

(3-3) Bergsagel

Music from ancient times to the present. Not open to students who have received credit in Mus. 5-6. Prereq., 18 or permission.

175-176. HISTORY OF ARCHITECTURE (3-3) Denison

The development of architecture with emphasis on environmental influences. Illustrated lectures.

179-180. HISTORY OF THE VISUAL THEATRE (3-3) Hahne, Lane

Survey of theatrical production and acting. Development of the related arts of dance and the motion picture.

203-204. HISTORY OF ORATORY (3-3) Staats

Survey from the Greek and Roman periods to modern times.

491. SEMINAR IN FINE ARTS (1) Larson, Staff

Maximum credit in course, 6 hrs.

FRENCH—See Modern Languages

GENERAL STUDIES

1-2. Biology — THE LIVING WORLD (3-3) Staff

Biol. 1 deals with the fundamental similarities and differences among plants and animals; their protoplasm, cells, tissues, and organs; and their physiological processes. Biol. 2 provides a survey of the principal plant and animal groups, emphasizing comparative structure, life histories, and classification. Basic principles of heredity, evolution, and ecology are introduced.

Designed primarily for non-science majors. A maximum of 3 hrs. credit may be allowed toward a botany or zoology major, subject to the approval of the department. No credit allowed for students who have already completed Bot. 3-4 or Zool. 3-4. Not open to juniors and seniors. 2 lec., 2 lab. (Yearly.)

3, 4. Physical Science — THE PHYSICAL WORLD (3, 3) Staff

A general physical science course designed for non-science majors. 3 includes an introduction to astronomy, meteorology, and topography; 4 includes chemistry and physics. Not open to juniors and seniors. 2 lec., 2 lab. (Yearly.)

7, 8. Humanities — GREAT BOOKS (3, 3) Culbert, Hultgren, Murphy, Wells

Guided reading and discussion of literary masterpieces, ancient and modern; consideration of man's relation to God, right and wrong, society, and environment. Open to those who are eligible for or have taken English 3. Not open to juniors and seniors. (Yearly.)

107, 108. Humanities — GREAT BOOKS (3, 3) Culbert

Similar to Humanities 7, 8, but designed for upperclassmen. Not open to freshmen or to those who have had Humanities 7 and 8. (Yearly.)

9, 10. Social Science — CITIZENSHIP IN THE MODERN WORLD

(3, 3) Bald, Fairfield, Kwan, Murphree, Park, Sheridan

9 is an introductory analysis of human behavior, using several social sciences; 10 focuses upon the American democratic heritage and its chief competitors, communism and fascism. Not open to juniors and seniors. Recommended, but not required in sequence. (Yearly.)

209, 210. Social Science — CITIZENSHIP IN THE MODERN WORLD

(3, 3) Fairfield

Approaches to human behavior, personality, and culture through advanced readings from several fields. 210 stresses American culture and character and the political crisis in an international community. Not open to freshmen and sophomores nor to those who have had Soc. Sc. 9, 10. (Yearly.)

268. TEACHING OF BIOLOGY

(2) Stehr, Wallace

A consideration of the purposes of high school biology, instructional materials, classroom methods, sources of laboratory equipment and supplies, and examination techniques. Prereq., 12 hrs. biological science. (2nd sem., Yearly.)

297-298. American Studies — SEMINAR IN AMERICAN STUDIES {3-3} Staff

Selected problems in humanities and social sciences are examined critically from the point of view of the several disciplines. Prereq., American studies senior majors (see College of Arts and Sciences section of the catalog), and other seniors by permission.

GEOGRAPHY AND GEOLOGY

Professor Sturgeon (chairman)

Assistant Professors Phelps, Aukland, Baker, Lahey

Instructor Korsok

GEOGRAPHY

The major requirement for the A.B. degree is 30 semester hours in approved departmental courses and Geol. 3-4. Geol. 111-112 and 223 are required for students specializing in physical geography.

3. ELEMENTS OF PHYSICAL GEOGRAPHY

(3) Staff

Study of the elements of the physical environment; earth-sun relationships, landforms, weather and climate, and soils. Not open to juniors and seniors, or students who have had Geog. 150. (Each sem.)

4. WORLD REGIONAL GEOGRAPHY

(3) Staff

Study of the world by regions wherein the physical background, land utilization, and cultural development is surveyed. Not open to juniors, seniors, or students who have had Geog. 150. (Each sem.)

115. ECONOMIC GEOGRAPHY

(3) Staff

Study of the world distribution of man's basic economic activities: extractive, agricultural, and manufacturing industries. (Each sem.)

150. GEOGRAPHY AND ENVIRONMENT

(3) Staff

Survey of man's response and adjustment to the varied natural environment throughout the world, employing the concepts of human geography. Not open to students who have had Geog. 3 or 4. (Each sem.)

175. FUNDAMENTALS OF METEOROLOGY

(3) Lahey

Study of the elements of weather: temperature, pressure, moisture, and wind. Weather map analysis. 2 lec., 2 lab. (1st sem., yearly.)

176. FUNDAMENTALS OF CLIMATOLOGY

(3) Lahey

Study of the climates of the world: their distribution, characteristics, and causes. 2 lec., 2 lab. Prereq., Geog. 175. (2nd sem., yearly.)

202. GEOGRAPHY OF THE UNITED STATES AND CANADA

(3) Lahey

Systematic and regional study of the U. S. and Canada: the physical environment, natural resources, agriculture, and cultural development. (1st sem., yearly.)

215. CARTOGRAPHY

(3) Korsok

Elementary principles of map projections, map drawing, and graph making. Prereq., permission. (2nd sem., yearly.)

231. GEOGRAPHY OF OHIO

(3) Korsok

Detailed regional study of the physical background and economic development. (2nd sem., 1960-61.)

322. CONSERVATION OF THE NATURAL RESOURCES (3) Staff

Problems in the conservation of soils, water, minerals, forests, and wild life as related to land use. The interrelations of these various factors and their educational significance are emphasized. Field trips. (1st sem., yearly.)

301. GEOGRAPHY OF THE SOVIET UNION (3) Korsok

Physical, cultural, and economic geography of the Soviet Union. Prereq., 3 and 4, or 150*. (2nd sem., 1960-61.)

305. GEOGRAPHY OF LATIN AMERICA (3) Korsok

Similar treatment as in 301. Prereq., 3 and 4, or 150*. (1st sem., 1960-61.)

308. GEOGRAPHY OF EUROPE (3) Korsok

Similar treatment as in 301. Prereq., 3 and 4, or 150*. (2nd sem., 1961-62.)

312. GEOGRAPHY OF SOUTHERN ASIA AND ISLANDS (3) Korsok

Similar treatment as in 301. Prereq., 3 and 4, or 150*. (1st sem., 1961-62.)

322. GEOGRAPHY OF AMERICA (3) Lahey

Similar treatment as in 301. Prereq., 3 and 4, or 150*. (2nd sem., 1960-61.)

360. POLITICAL GEOGRAPHY (3) Staff

Geographic basis of national strength or weakness. Physical and cultural influence upon historical development is emphasized. Prereq., 6 hrs.* (1st sem., 1960-61.)

* Upperclassmen and graduate students in related fields, such as history, economics, government, and sociology may take the course by permission.

382. GEOGRAPHICAL STUDIES

(1 to 4 a semester in any of the following) Staff

Supervised studies in fundamentals of geographic research. Maximum credit in any one area, 8 hrs. Prereq., 12 hrs., permission. (Each sem.)

- a. *Cartography*. Korsok
- b. *Conservation of Natural Resources*. Staff
- c. *Economic Geography*. Korsok
- d. *Meteorology and Climatology*. Lahey
- e. *Physiography* (See Geol. 383a). Lahey
- f. *Political Geography*. Korsok
- g. *Regional Geography*. Staff

GEOLOGY

The major requirement for the A.B. or B.S. degree is a minimum of 30 semester hours in approved departmental courses numbered above 100, including 111, 112, 131, 132, 223, 241, 251, 252, 282, 313, 314, 362, field camp (recommended), and Geog. 3, 4, and 215. In addition, the following extra-departmental work is required: Chem. 3, 4, and 99; C.E. 10; Math. 3 and 14, or 15; Physics 5, 6.

3-4. ELEMENTS OF GEOLOGY (3-3) Staff

Studies of earth features, processes, and principles and an introduction to earth history. 2 lec., 2 lab., field trips. 3 not open to students who have had 103 or 106. (Each sem.)

103. **ENGINEERING GEOLOGY** (3) Aukland
Geologic principles and processes are applied to engineering materials. 2 lec., 2 lab., field trips. Not open to students who have had 3 or 106. (1st sem., yearly.)
106. **AGRICULTURAL GEOLOGY** (3) Sturgeon
Geologic materials, processes, and principles of value to students of agriculture. 2 lec., 2 lab., field trips. Not open to students who have had 3 or 103. (2nd sem., 1960-61.)
- 111-112. **HISTORICAL GEOLOGY** (2-2) Sturgeon
Earth history emphasizing geologic development and stratigraphy of North America. 2 lec., 1 lab., field trips. Prereq., 4. (Yearly.)
131. **MINERALOGY** (3) Phelps
Elements of crystallography and the introduction to descriptive mineralogy. 2 lec., 2 lab. Prereq., 4, Chem. 4, 99. (1st sem., yearly.)
132. **MINERALOGY** (3) Phelps
Determinative mineralogy using physical and chemical means. 1 lec., 4 lab. Prereq., 131. (2nd sem., yearly.)
223. **PRINCIPLES OF GEOMORPHOLOGY** (3) Baker
Study of the origin of land forms and geomorphic structures of the world. 2 lec., 2 lab., field trips. Prereq., 10 hrs. including 112. (1st sem., 1960-61.)
224. **GLACIAL GEOLOGY** (3) Baker
Introduction to study of glaciers and glaciation. 2 lec., 2 lab., and field trips. Prereq., 112. (1st sem., 1961-62.)
241. **PETROLOGY** (3) Phelps
Study of rocks emphasizing origin, composition, field classification, and identification. 2 lec., 2 lab., field trips. Prereq., 132. (1st sem., yearly.)
- 251-252. **INVERTEBRATE PALEONTOLOGY** (3-3) Sturgeon
Introduction to fossils, emphasizing their morphology, classification, identification, and distribution. 2 lec., 2 lab., field trips. Prereq., 112. (Yearly.)
282. **GEOLOGIC FIELD METHODS** (3) Phelps
Introduction to the use of land level, Brunton pocket transit, and plane table and telescopic alidade, and aerial photos. 1 lec., field work. Prereq., 12 hrs., C.E. 10, permission. (2nd sem., yearly.)
313. **PRINCIPLES OF SEDIMENTATION** (3) Aukland
Processes and principles involved in study of sediments. 2 lec., 2 lab., field trips. Prereq., 112, 132, 241. (1st sem., yearly.)
314. **PRINCIPLES OF STRATIGRAPHY** (3) Sturgeon
Materials and principles involved in the study of stratigraphy. 2 lec., 2 lab., field trips. Prereq., 251-252, 313. (2nd sem., yearly.)
315. **GEOLOGY OF OHIO** (2) Sturgeon
Introduction to its physiography, stratigraphy, and economic geology. 2 lec., field trips. Prereq., 112. (2nd sem., 1961-62.)
333. **OPTICAL CRYSTALLOGRAPHY** (2) Aukland
Study of optical behavior of minerals by use of the petrographic microscope. 1 lec., 2 lab. Prereq., 132, Phys. 6, Chem. 4, 99. (1st sem., yearly.)

342. PETROGRAPHIC METHODS

(3) Aukland

Introduction to the identification of rocks by thin-sections and the petrographic microscope. 2 lec., 2 lab. Prereq., 241, 333. (2nd sem., 1960-61.)

353. MICROPALEONTOLOGY

(3) Sturgeon

Introduction to microscopic animal fossils. 1 lec., 4 lab., field trips. Prereq., 251. (1st sem., 1961-62.)

362. STRUCTURAL GEOLOGY

(3) Phelps

Study and interpretation of rock structures caused by earth movements. 2 lec., 2 lab., field trips. Prereq., 4, 112, Math. 14 or 15. (1st sem., yearly.)

371. ECONOMIC GEOLOGY—Metals

(3) Phelps

Principles of metallic mineral deposition and a survey of the ore deposits of the world. 2 lec., 2 lab. Prereq., 132, 241. (1st sem., 1960-61.)

372. ECONOMIC GEOLOGY—Non-metals

(3) Aukland

Principles of non-metallic mineral deposition and a survey of non-metallic and mineral fuel deposits of the world. 2 lec., 2 lab., field trips. Prereq., 132, 241. (2nd sem., 1960-61.)

376. GROUND WATER GEOLOGY

(3) Baker

Study of the principles governing the occurrence, movement, and recovery of ground water. 3 lec. Prereq., 314. (2nd sem., 1961-62.)

383. GEOLOGIC STUDIES

(1 to 4 hrs. a semester in any of the following) Staff

Supervised studies in fundamentals of geologic research. Maximum credit in any one area, 8 hrs. Prereq., 12 hrs., permission.

a. *Glacial Geology and Physiography.* Baker

b. *Mineralogy, Petrology, or Economic Geology.* Aukland, Phelps

c. *Paleontology.* Sturgeon

d. *Sedimentation and Stratigraphy.* Aukland, Phelps, Sturgeon

e. *Structural Geology.* Phelps

385, 386. GEOLOGIC FIELD RECONNAISSANCE

(2 or 3, 2 or 3) Staff

Vacation period geologic field trips to selected areas in North America with pertinent conferences, readings, and accepted reports. Prereq., 15 hrs., permission. Maximum credit in course, 6 hrs.

391, 392. SEMINAR IN GEOLOGY

(1, 1) Staff

Attendance required of all graduate and senior major students. Maximum credit in course, 3 hrs. (Yearly.)

415. REGIONAL STRATIGRAPHY—EASTERN NORTH AMERICA

(3) Sturgeon

Detailed stratigraphy east of the Great Plains. 2 lec., 2 lab. Prereq., 12 hrs. above 100, including 112 and 314. (1st sem., 1960-61.)

416. REGIONAL STRATIGRAPHY—WESTERN NORTH AMERICA

(3) Phelps, Sturgeon

Similar to 415 but covering the Great Plains and Cordilleran regions. 2 lec., 2 lab. Prereq., 12 hrs. above 100, including 112 and 314. (2nd sem., 1960-61.)

425. REGIONAL PHYSIOGRAPHY—EASTERN NORTH AMERICA

(3) Baker

Study of surface features and related significant geologic data of North America east of the Great Plains. 2 lec., 2 lab., field trips. Prereq., 223, 314, 362. (1st sem., 1961-62.)

426. REGIONAL PHYSIOGRAPHY—WESTERN NORTH AMERICA (3) Baker
Similar to 425 but covering the Great Plains and Cordilleran regions.
2 lec., 2 lab. Prereq., 223, 314, 362. (2nd sem., 1961-62.)

493. RESEARCH IN GEOLOGY (1 to 4) Staff
Maximum credit in course, 6 hrs. Prereq., 18 hrs., permission.
(Yearly.)

495. THESIS (1 to 6) Staff
Maximum credit in course, 6 hrs. Prereq., permission.

GERMAN—See Modern Languages

GOVERNMENT

Associate Professors Collins, Gusteson (chairman)
Elsbree, Fairfield
Assistant Professor Bald
Instructor Sweet

The major requirement for the A.B. degree is 24 hours, including Govt. 1 and 2. Recommended electives include Economics 11-12 or 101-102; English 293; and History 101-102.

1, 2. AMERICAN GOVERNMENT (3, 3) Staff

Govt. 1 includes the political and constitutional development, the organization and functioning of the national government. Govt. 2 is concerned with the organization and functioning of state and local governments. Not open to juniors and seniors. (Yearly.)

101, 102. COMPARATIVE GOVERNMENT (3, 3) Elsbree, Sweet

A comparison of the American, European, and Oriental systems of government, including organization, procedure, popular representation, and the effect upon the social and economic life of the people. (Yearly.)

106. CURRENT POLITICAL AND SOCIAL PROBLEMS

(2) Collins, Elsbree, Fairfield

Analysis of issues pertaining to American labor, agriculture, foreign policy, and civil liberties and their governmental implications. (Yearly.)

203. MUNICIPAL GOVERNMENT AND ADMINISTRATION (3) Collins

The creation and legal powers of cities; municipal elections and politics; an analysis of the administrative functions and problems of city government. Prereq., 6 hrs. (Yearly.)

216. INTERNATIONAL RELATIONS (3) Bald

Basic factors involved in world politics, including the modern state system, nationalism, militarism; the evolution of international relations, forces and conditions affecting international relations, and the formulation of national foreign policies. Prereq., 6 hrs. govt. or hist. (1st sem., yearly.)

217. CURRENT INTERNATIONAL PROBLEMS (3) Bald, Elsbree

An analysis of selected contemporary issues illustrating basic problems in international relations. Prereq., 6 hrs. govt. or hist.

301, 302. AMERICAN CONSTITUTIONAL LAW (2, 2) Gusteson

Principles underlying American constitutional government. Consideration of leading cases, with special reference to interpretation of the Constitution of the United States. Prereq., 9 hrs. govt. or hist. (Yearly.)

305. AMERICAN POLITICAL PARTIES (3) Gusteson

The origin, growth, organization, and methods of parties; the role of parties in a democracy; the influence of pressure groups. Prereq., 9 hrs. (Yearly.)

308. LEGISLATURES AND LEGISLATIVE PROCESSES (3) Gusteson

Major problems of representative government with respect to legislative assemblies. Analysis of structure, organization, and procedures. Interrelationship of legislatures with other forces in society. Prereq., 9 hrs. (Yearly.)

309. LAW ENFORCEMENT (3) Gusteson

Survey and analysis of the problems of the American policing, prosecutory, judicial, and correctional systems. Emphasis on both policy making and administration. Prereq., 9 hrs. (Yearly.)

323. INTERNATIONAL LAW AND ORGANIZATION (3) Bald

Development and analysis of the principles of public law governing the relations of states, emphasizing current problems and developments. Analysis of the role of international organizations in the relations of states, maintaining international peace, and developing international law. Prereq., Govt. 216 or 217. (2nd sem., yearly.)

331. FAR EASTERN GOVERNMENTS AND POLITICS (3) Elsbree

A study of the governmental organization, political parties, and foreign policies of China, Japan, and selected countries of Southeast Asia. Political developments since 1945 will be emphasized. Prereq., 9 hrs. (Yearly.)

341. AMERICAN FOREIGN POLICY (3) Collins

A consideration of the problems involved in the formulation and execution of foreign policy. Particular emphasis is given to the current problems of American policy. Prereq., 9 hrs. govt. or hist. (2nd sem., yearly.)

343. AMERICAN POLITICAL THOUGHT (2) Fairfield

The origin and development of American political ideas from colonial times to the present, focusing upon concepts of democracy, liberty, and property. Prereq., 9 hrs. govt. or hist. (Yearly.)

344. RECENT POLITICAL THOUGHT (3) Elsbree

Political ideas of the nineteenth and twentieth centuries with the emphasis on Europe; liberalism, socialism, communism, and fascism. Prereq., 9 hrs., or 3 hrs. govt. and 6 hrs. Eur. Hist.

348. PUBLIC ADMINISTRATION (3) Collins

The theory and practice of administrative organization, and control of administrative action, with emphasis on financial and public personnel administration. Basic course for preparation for civil service examinations. Prereq., 9 hrs. (Yearly.)

349. ADMINISTRATIVE LAW (3) Collins

Organization, functions, procedures, and administrative problems of selected national regulatory agencies; principles affecting administrative discretion; administrative power over private rights; enforcement and judicial control of administrative action. Prereq., 9 hrs. (Yearly.)

370. STUDIES IN GOVERNMENT (1 to 3) Staff

Intensive study of special topics in the field of government and political science. Areas of study include comparative government, international affairs, political parties, political theory, public administration, and public law. Maximum credit in course, 12 hrs. Prereq., 12 hrs., permission. (Each sem.)

391. SEMINAR IN GOVERNMENT (1 to 3) Staff
Maximum credit in course, 6 hrs. Prereq., 15 hrs.
398. PROBLEMS IN GOVERNMENT (1 to 3) Staff
Research or directed reading based upon the student's special interest. Maximum credit in course, 6 hrs. Prereq., 15 hrs., permission.
401. RESEARCH IN GOVERNMENT (1 to 3) Staff
Maximum credit in course, 6 hrs. Prereq., 15 hrs., permission.
495. THESIS (1 to 6) Staff
Prereq., permission.

GREEK—See Classical Languages

HEALTH—See Physical Education and Athletics

HISTORY

Professors Cady (chairman), Gustavson
Associate Professors Morrison, C. H. Roberts, Stevens
Assistant Professors Mayes, Lobdell, Daniel
Instructors Thompson, Doxsee

The major requirement for the A.B. degree consists of a minimum of 24 hours, including Hist. 1,2, 101,102, (unless excused as the result of taking a placement test), and at least two courses above 300 selected from more than one field of history. Hist. 1,2 should be taken during the freshman year. Courses in economics, geography, government, and sociology are suggested as electives, with specific courses to be selected in consultation with the adviser.

1, 2. WESTERN CIVILIZATION IN MODERN TIMES (3,3) Staff

Hist. 1 covers the period from 1450 to 1815. It stresses the Renaissance, the Protestant Reformation, the agricultural and commercial revolutions, European expansion, the French Revolution, and Napoleonic Era. Hist. 2 places emphasis on the industrial revolution, the unification of Italy and Germany, modern imperialism in Africa and Asia, the rise of Japan, the United States as a world power, World War I, the rise of totalitarian states, World War II, and efforts toward world organization. Not open to juniors and seniors. (Each sem.)

101, 102. HISTORY OF THE UNITED STATES (3,3) Staff

A survey course covering the political, diplomatic, social, and economic development of American history. Hist. 101 covers the period to 1865; Hist. 102, the period from 1865 to the present. (Each sem.)

105. HISTORY OF OHIO (3) Morrison

A survey from earliest times to the present: social, economic, and political. (Each sem.)

110. THE OLD SOUTH (3) Morrison

A study of the plantation regime in the ante bellum South, with emphasis on the daily life on the various types of plantations. (Each sem.)

111. THE NEW SOUTH (3) Morrison

Social, economic, and political life since 1865, rural conditions, industrial development, labor conditions, the problem of white and black, educational progress, the solid South in politics, and the South today. (Each sem.)

115. ANCIENT HISTORY

(3) Doxsee

A survey of the origins of Western Civilization from prehistoric man to the disintegration of the Roman Empire, embracing a general study of the early civilizations of the Fertile Crescent and the Greco-Roman world. (1st sem., yearly.)

120. MEDIEVAL HISTORY

(3) Mayes

A study of social, economic, and cultural forces of the Middle Ages with emphasis on the institutional and cultural life from the fall of Rome to the Renaissance. (2nd sem., yearly.)

125, 126. ENGLISH HISTORY

(3, 3) Cady, Mayes

Designed for English majors and prelegal students as well as for the general student of history. The first semester covers the period to 1688 and stresses institutional aspects of medieval England and the social, political, and constitutional developments in the Tudor and Stuart periods. The second semester emphasizes cultural and economic developments, the British empire, constitutional and social reforms, and the impact of World Wars I and II. (Yearly.)

145. LATIN AMERICAN HISTORY

(3) Thompson

Emphasis will be placed on the national period. (2nd sem., yearly.)

240. HISTORY OF CANADA

(2) Morrison

An introduction to Canada: a study of its resources, its founding and development under France and England, and its emergence as an important modern state. (Each sem.)

248. HISTORY AND CIVILIZATIONS OF EASTERN ASIA

(3) Cady

Concerns India, China, and Japan to the nineteenth century: governmental forms, social and economic institutions, and value concepts considered in their historical contexts. Special attention is given to cultural borrowings from India by China and Southeast Asia, and from China by Japan. Prereq., 6 hrs., including 1. (1st sem., 1961-62.)

269. TEACHING OF THE SOCIAL STUDIES IN JUNIOR
AND SENIOR HIGH SCHOOLS

(3) Roberts

The nature, development, purpose, and value of the social studies, with emphasis on methods and techniques of instruction in this field. Problems of curriculum reorganization, unit planning, materials of instruction, and evaluation. Prereq., 12 hrs. social sciences. (Each sem.)

301. COLONIAL AMERICA

(3) Lobdell, Stevens

The discovery and colonization of America, relation of the colonies to England, and the daily life of colonial Americans. Prereq., 6 hrs., including 101. (1st sem., yearly.)

302. THE REVOLUTIONARY ERA

(3) Daniel

An intensive study of the causes of the Revolution, the struggle for independence, the movement for a new government, and the framing of the Constitution. Prereq., 6 hrs., including 101. (2nd sem., yearly.)

310. SECTIONAL CONTROVERSY—1820-1850

(2) Stevens

Slavery and political controversy, rise of the common man, rural conditions, transportation, immigration, education, the factory system, reform agitation, territorial annexations, and growth of nationality. Prereq., 6 hrs., including 101. (1st sem., yearly.)

312. THE CIVIL WAR AND RECONSTRUCTION (3) Stevens

The sections of the United States in 1850, forces leading to war, and the great conflict; Reconstruction, its background and development; restoration of home rule in the South, and general cultural and economic development. Prereq., 6 hrs., including 101. (2nd sem., yearly.)

316. HISTORY OF THE INDUSTRIAL REVOLUTION IN THE UNITED STATES—1850-1941 (3) Daniel

Origins of the factory system in America, the impact of the Civil War, rise of heavy industry, problems of financing and control, influence of the progressive era, resurgence of big business during wartime and the twenties, and industrial problems of the depression period. Prereq., 6 hrs., including 102. (2nd sem., 1961-62.)

321. THE UNITED STATES IN RECENT TIMES—1898-1928 (3) Lobdell

American imperialism, the Progressive Era, World War I, retreat from world responsibility and the post-war prosperity period. Prereq., 6 hrs., including 102. (1st sem., yearly.)

322. THE UNITED STATES IN RECENT TIMES—SINCE 1928 (3) Lobdell

The great depression, the New Deal, abandonment of isolation, World War II, and post-war crises and problems. Prereq., 6 hrs., including 102. (2nd sem., yearly.)

324. HISTORY OF AMERICAN DIPLOMACY (3) Thompson

A survey of the development of the foreign policy of the United States, emphasizing relations with Latin America, the Far East, and Europe to World War II. Prereq., 6 hrs. (1st sem., yearly.)

325. THE WESTWARD MOVEMENT (3) Daniel, Stevens

Expansion from the Atlantic to the Pacific. Explorations, Indian trade, land policies, pioneer life, territorial acquisitions and state making, trails and railroads to the Far West, rise of cowboy land, types of later frontiers, and influence of the West upon American ideals and institutions. Prereq., 6 hrs., including 101. (2nd sem., yearly.)

331. SOCIAL HISTORY OF THE UNITED STATES (3) Daniel

The story of immigration, race, the family, class structure, religion, leisure and "the American way of life"; problems of disease, poverty, crime, and urbanization. Prereq., 6 hrs. (1st sem., yearly.)

332. CULTURAL HISTORY OF THE UNITED STATES (3) Daniel

The development of American art, architecture, music, forms of literary expression, science, and educational means for the dissemination of culture. Prereq., 6 hrs. (2nd sem., yearly.)

341. THE MIDDLE WEST (3) Stevens

Development of political, economic, and social institutions and attitudes characteristic of Ohio and the Middle West since 1787. Emphasis on twentieth century community relationships, problems, and forms of behavior. Prereq., 101, 102. (1st sem., 1960-61.)

350. THE FAR EAST IN MODERN TIMES (3) Cady

Manchu China and Tokugawa Japan in the early nineteenth century; the opening of China; Meiji Restoration in Japan; failure of China to adjust to external pressures; Japan's emergence as a World Power; Manchu collapse and abortive efforts to reconstitute the state; Japanese political developments to 1930; defeat of Japan's effort at hegemony over Eastern Asia; Communist triumph in China. Prereq., 2 or 102. (1st sem., yearly.)

352. INDIA AND SOUTHEAST ASIA IN MODERN TIMES (3) Cady

Indianization of Southeast Asia, Hindu, Buddhist, Islamic; cultural centers of historic Southeast Asia; the impact of Western colonialism on the area; liquidation of colonial rule and problems faced by the new world of Southeast Asia. Prereq., 6 hrs. (2nd sem., yearly.)

356. THE MIDDLE EAST IN MODERN TIMES (3) Doxsee

The decline of the Ottoman Empire during the course of the nineteenth century; the emergence and evolution of the successor states of the Middle East; contemporary economic, social, and political problems of the region. Prereq., 6 hrs., including 2. (2nd sem., yearly.)

361. THE RENAISSANCE AND THE REFORMATION (3) Mayes

A study of Europe in transition from the fourteenth to the sixteenth centuries, with special emphasis on Italy. The course will examine the rise of the national states, the commercial revolution, humanism, art and architecture, the later medieval church, the rise of Protestantism, and the Catholic Reformation. Prereq., 6 hrs., including 1. (2nd sem., 1961-62.)

363. TUDOR AND STUART ENGLAND (3) Mayes

England in the sixteenth and seventeenth centuries; a study of Tudor absolutism, the English Reformation, the constitutional crises (parliament versus the Crown) of the Stuart period, the republican experiment under Cromwell, the beginnings of empire, and the major cultural and economic developments. Prereq., 6 hrs., including 1 or 125. (2nd sem., 1960-61.)

365. FRENCH REVOLUTION (3) Gustavson

An intensive study of such historical factors as causality, influence of ideology, institutional organization, and the role of the individual in a great social upheaval. Class meets as a seminar. Prereq., 9 hrs. (2nd sem., 1961-62.)

370. EUROPE BETWEEN WORLD WARS (3) Gustavson

Fascism, communism, and the twenty-year armistice between 1919 and 1939. Prereq., 6 hrs., including 2. (1st sem., 1960-61.)

372. CONTEMPORARY EUROPE (3) Gustavson

Problems of peace and war in Europe since 1939. Prereq., 6 hrs., including 2. (2nd sem., yearly.)

375. HISTORY OF RUSSIA (3) Gustavson

A survey from the earliest times to the present. The Russian background of communist ideas, organization, and practices is stressed. Prereq., 6 hrs. (1st sem., yearly.)

376. THE SOVIET UNION (3) Gustavson

A history of the U.S.S.R., with emphasis on internal affairs of the Communist regime. Prereq., 6 hrs., including 2. (1st sem., 1961-62.)

378. THE HISTORY OF MODERN GERMANY (3) Gustavson

A survey of Germany and central Europe since the Age of Napoleon. Prereq., 6 hrs., including 2. (2nd sem., 1961-62.)

387. AFRICA IN MODERN TIMES (3) Cady, Doxsee

African geography, resources, and peoples; European contacts prior to 1860; explorers and missionaries; partitioning to 1914; recent political and economic developments; problems of racial and cultural adjustment; prospects of emerging African states. Prereq., 6 hrs. (1st sem., yearly.)

390. REPRESENTATIVE HISTORIANS AND THEIR WRITINGS (2 or 3) Staff
 Typical historians from the time of Herodotus with readings from their masterpieces to illustrate schools of interpretation, philosophies of history, and the development of historical writing. Prereq., 12 hrs. (2nd sem., 1961-62.)

392. PROBLEMS IN HISTORY (1 to 3) Staff
 Intensive individual work either in research or in systematic reading along the lines of the student's special interest under the supervision of a member of the staff. Prereq., 15 hrs., permission. Maximum credit in course, 6 hrs. (Each sem.)

395. HISTORIOGRAPHY AND METHODOLOGY (4) Staff
 An introduction to the technique of historical investigation with practice in historical criticism and writing. Prereq., 15 hrs. (1st sem., yearly.)

398. SEMINAR IN HISTORY (1 to 3) Staff
 Reports based upon original research with group discussion and criticism. Maximum credit in course, 6 hrs. Prereq., 15 hrs., permission. (2nd sem., yearly.)

495. THESIS (3 to 6) Staff
 Prereq., permission.

HOME ECONOMICS

Professor V. M. Roberts (director)

Associate Professor Bane

Assistant Professors Macauley, Davis, Lewis, Nehls,

Cowan, Sellers, Howell, Makroczy

Instructors Rogers, Dahlke

Part-Time Instructor E. Black

The School of Home Economics offers work in the following fields: (1) Child Development and Family Life, (2) Foods and Nutrition, (3) Home Economics Education, (4) Housing and Home Management, (5) Food Service Management, and (6) Textiles and Clothing.

Basic courses in each area of home economics are set up with emphasis directed toward home and family living. Students who are majoring in other departments, but desire training directed toward home and family living may elect any of the basic courses: 1-2, 3-4, 5, 6, 7, 108, 110, and 161.

Students majoring in home economics take the basic courses in home economics and courses in general education during the first two years and follow a professional curriculum during the junior and senior years. Requirements for a Bachelor of Science in Home Economics degree are indicated in the College of Applied Science section of the catalog.

HOME ECONOMICS

51. ORIENTATION IN HOME ECONOMICS

(2) Roberts, assisted by specialists in each field

The opportunities for careers in the various fields of home economics. Vocational testing, guidance, and counseling.

161. HOME NURSING AND FAMILY HEALTH (2) Black

Training in simple procedures in the care of the sick and minor accidents in the home. A study of disease prevention and health promotion for the family.

360. WORKSHOPS IN HOME ECONOMICS (1 or 2) Staff

Special workshops to aid the home economics teacher. The areas of study include:

- a. Home Economics Education
- b. Clothing and Textiles
- c. Foods and Nutrition
- d. Child Development and Family Life
- e. Consumer Education
- f. Home Furnishings
- g. Home Management
- h. Household Equipment
- i. School Lunch Management

Maximum credit toward graduate degree, 6 hrs. Prereq., 268 or equivalent; teaching experience or qualifications for certification to teach home economics. (Summer only.)

381. RESEARCH IN HOME ECONOMICS (1 to 3) Staff

A project course in which the student carries on independent investigations under the guidance of the instructor. Maximum credit in course, 6 hrs. Prereq., 20 hrs., permission.

390a, b, c, d, e. FIELD WORK IN HOME ECONOMICS (2 to 4) Staff

- (a) Home Economics Extension
- (b) Home Service Work With Public Utilities
- (c) Food Service Management
- (d) Retail Merchandising
- (e) Radio-TV

Through cooperation with business organizations, department stores, radio-TV stations, and the Home Economics Extension Department, opportunities are given for on-the-job training and practical experience. The faculty adviser serves as coordinator of the program. Prereq., 18 hrs., permission, senior rank.

391. SEMINAR IN HOME ECONOMICS (1 to 2) Staff

Prereq., 18 hrs., permission.

495. THESIS (1 to 6) Staff

Prereq., permission.

CHILD DEVELOPMENT AND FAMILY LIFE

5, 6. CHILD DEVELOPMENT AND FAMILY LIVING (3, 3) Howell, Nehls

H. Ec. 5 deals with the physical, emotional, social, and intellectual development of the child through adolescence. The home environment, the care, and the guidance which foster the total development of the child will be stressed.

H. Ec. 6 stresses the problems confronting young people in establishing a family. Attention is given to the reinforcement the family may secure through interactions with the church, the school, and the community. Credit not given to those who have had H. R. 301 or Soc. 260.

172. ADVANCED CHILD DEVELOPMENT (2) Nehls

The development of the preschool child as approached through the cooperation of the parents, the teachers, and the children in the Nursery School. 1 lec., 3 hrs. participation in Nursery School. Prereq., 5, or 6 hrs. psychology.

375a, b. READINGS IN CHILD DEVELOPMENT AND FAMILY LIVING

(2 or 3) Howell, Nehls

a. Child Development

b. Family Living

An intensive study through library research of a phase of child development or a problem in family living. Weekly conferences. Maximum credit in course, 6 hrs. Prereq., 6 and 172, or 9 hrs. psychology and/or sociology, permission.

377. TECHNIQUES WITH YOUNG CHILDREN

(3) Howell

Techniques of guidance of nursery school children, with emphasis on emotional and social development of the child and the effect of family attitudes on behavior. 2 lec., 3 hrs. at Nursery School. Prereq., 6, 172.

378. ADMINISTRATION OF GROUP CARE OF YOUNG CHILDREN

(3) Howell

The organization and administration of Nursery School. Prereq., 6, 172. (Not offered 1961-62.)

379a, b. GUIDANCE OF NURSERY SCHOOL CHILDREN

(2 to 6) Howell, Nehls

(a) Teaching and Guidance in the Nursery School. (4)

(b) Techniques in Child Feeding. (2)

Teaching and guidance in the Nursery School with participation in all phases of the Nursery School program. Prereq. for a, 377 or 6 hrs. of psychology and permission, or Ed. 272; for b, 377 or 6 hrs. of psychology and permission, or Ed. 272. H. Ec. 125 or 155.

477a, b. SPECIAL STUDIES IN FAMILY RELATIONSHIPS OR CHILD DEVELOPMENT

(2 to 6) Nehls

(a) Family Relationships. (2 or 3)

(b) Child Development. (2 or 3)

Prereq., 6 and 172 or 12 hrs. psychology, sociology and/or human relations.

FOODS AND NUTRITION**1-2. FOODS, NUTRITION AND MEAL PLANNING (3-3) Dahlke, Lewis, Sellers**

Selection, storage, preparation, and serving of food. Nutrition and all aspects of food management in the home are considered. 1 lec., 1 discussion, 4 lab.

125. FAMILY NUTRITION

(3) Dahlke

The relation of nutrition to growth, development, and maintenance of health in all age groups. 2 lec., 2 lab.

320. CREATIVE COOKERY AND MEAL MANAGEMENT

(2 to 4) Roberts

An advanced course emphasizing the creative, scientific, and artistic phases of food preparation and meal management. Prereq., 9 hrs. foods and nutrition and permission. (Summer only.)

322. EXPERIMENTAL COOKERY

(3) Lewis

Group and individual experiments on selected problems of food preparation. 1 lec., 4 lab. Prereq., 2 and Chem. 113. (Not offered 1961-62.)

325. COMPARATIVE STUDIES IN FOODS (3) Lewis, Macauley

An advanced course in food preparation including comparative cookery, and home food preservation. Factors affecting palatability and retention of nutrients in food will be considered. 1 lec., 4 lab. Prereq., 2 and Zool. 241.

326. ADVANCED NUTRITION (3) Dahlke

Principles of nutrition as applied to the feeding of individuals and families under varying conditions. 2 lec., 2 lab. Prereq., 125, Chem. 113 and Zool. 235.

328. RECENT DEVELOPMENTS IN FOODS AND NUTRITION (3) Roberts

Reports, discussions, and reviews of scientific literature. Some laboratory projects may be included. Prereq., 2, and 125 or equivalent. (Summer only.)

329. NUTRITION IN DISEASE (2) Dahlke

Application of principles of nutrition to the feeding of individuals and the use of diet in prevention and treatment of disease. Problems in planning and preparing therapeutic diets. 1 lec., 3 lab. Prereq., 125, 326.

340. PROBLEMS IN FOODS AND NUTRITION (2 or 3) Dahlke, Lewis, Macauley

A comprehensive study of nutrition, experimental foods, food or nutrition analysis, or food service management. Maximum credit in course, 6 hrs. Prereq., 9 hrs. foods and nutrition and permission.

433. SPECIAL PROBLEMS IN CHEMISTRY OF FOODS AND NUTRITION

(2 or 3) Lewis

Maximum credit in course, 6 hrs. Prereq., 322 or 326.

HOME ECONOMICS EDUCATION

155. NUTRITION FOR THE ELEMENTARY SCHOOL (2) Dahlke

Problems related to home economics at the elementary level. Emphasis on the development of good food habits and nutritional status of children. (Not offered 1961-62.)

268. TEACHING OF HOME ECONOMICS (2) Sellers

Organization, methods, classroom procedures, evaluation, and teaching aids in family life education for secondary schools. Prereq., junior rank.

269. TEACHING OF FOODS AND NUTRITION (3) Dahlke, Lewis

Organization of materials and methods of presenting principles of food preparation and nutrition. For majors in foods and nutrition. 1 lec., 4 lab. Prereq., 2, 125.

350. PROBLEMS IN THE TEACHING OF HOME ECONOMICS (1 to 3) Sellers

Opportunity for individual selection of problems. Maximum credit in course, 6 hrs. Prereq., 18 hrs. and 268.

367. VOCATIONAL HOME ECONOMICS (3) Sellers

History and philosophy of vocational homemaking education. Contemporary trends, methods, sources of materials, and evaluation. Observations arranged. Prereq., 268 or teaching experience in home economics. (Summer only.)

368. DEMONSTRATION TECHNIQUES (2) Lewis, Roberts

Practical experience in the demonstration of foods, equipment, or clothing. Planned for those going into secondary education or consumer service positions. 4 lab. Prereq., 12 hrs.

369. HOME ECONOMICS IN ADULT EDUCATION (3) Sellers

Organization procedures, curriculum materials, and methods of conducting adult education groups in the field of education for family living. Prereq., 18 hrs.

450. SPECIAL PROBLEMS IN THE TEACHING OF HOME ECONOMICS

(2 or 3) Sellers

Maximum credit in course, 6 hrs. Prereq., teaching experience in home economics.

HOUSING AND HOME MANAGEMENT**7. THE HOME AND ITS FURNISHINGS**

(2) Makroczy

A practical and aesthetic study in house furnishings including basic art qualities, styles of houses and interiors; analysis of modern floor plans; selection and arrangement of furniture and accessories. 1 lec., 2 lab.

108. CONSUMER PROBLEMS OF THE FAMILY

(2) Macauley

Personal finance and retailing activities as they affect the role of the consumer. 1 lec., 2 lab.

330. WORKSHOP IN HOME FURNISHINGS

(3) Makroczy

Laboratory problems in advanced techniques in home furnishings, including upholstering, slip-covering, refinishing furniture, and making draperies. 1 lec., 4 lab. Prereq., 4, 7; for non-majors, 3, and 4 hrs. art and permission.

331. ECONOMICS OF FURNISHINGS

(2) Makroczy

A study of the production, distribution, and qualities of furnishings. Problems on china, glass, silver, furniture, bedding, rugs, etc. Prereq., 330; for non-majors, 6 hrs. economics. (Offered as needed.)

334. HOUSEHOLD EQUIPMENT

(3) Macauley

A critical analysis of the use of equipment to establish standards for effective use. 1 lec., 4 lab. Prereq., 2, 108.

351. HOME MANAGEMENT

(2) Rogers

Economic use of time, energy, and money in the successful functioning of the home from the viewpoint of the satisfaction of members of the family. Prereq., 2, 108, or 6 hrs. sociology.

353. HOME MANAGEMENT LABORATORY

(3) Rogers

Residence in the home management house for one-half semester provides experience in the use of human and material resources of the family for the optimum development of its members. A charge is made to cover room and board. Prereq., 351 or with 351, permission.

452. SPECIAL PROBLEMS IN HOUSEHOLD EQUIPMENT AND HOME MANAGEMENT

(2 or 3) Macauley, Rogers

Maximum credit in course, 6 hrs. Prereq., 334, 351, 353.

FOOD SERVICE MANAGEMENT**327. QUANTITY COOKERY**

(3) Macauley

Preparation and serving of foods in large quantities. Use of modern equipment. Laboratory practice in the cafeteria and residence halls of Ohio University. Prereq., 2.

342. MARKETING AND FOOD COST CONTROL (2) Macauley

Studies in production, distribution, and storage of food supplies to serve as a basis for the purchase of such commodities for quantity use. Record keeping involved in food service. 1 lec., 3 lab. Prereq., 327, Acct. 75.

343. EQUIPMENT AND FURNISHINGS (2) Macauley

Kitchen planning and selection of equipment including materials, construction, installation, operation, care, and relative cost; floor plans and specifications. 1 lec., 3 lab. Prereq., 327.

348. ORGANIZATION AND MANAGEMENT (3) Macauley

Principles of organization and administration which apply to food units in school lunch rooms, and public and private institutions. Administration of labor; standards of work; cost control. Prereq., 327 and Acct. 75.

TEXTILES AND CLOTHING**3-4. CLOTHING SELECTION AND CONSTRUCTION**

(2-2) Bane, Cowan, Makroczy

A basic course in clothing construction with discussions on color, line, personal attractiveness, fashion, and wardrobe planning. 1 lec., 3 lab.

110. TEXTILES (2) Cowan

A basic textile course involving the study of textile fibers and the construction, processing, and care of fabrics. 2 lec., 1 lab.

212-213. FLAT PATTERN DESIGN (2-2) Bane

Dress pattern making on advanced fitting problems and the execution of original designs. 1 lec., 3 lab. Prereq., 4 and 110 or Art 137 and permission.

300. NEW DEVELOPMENTS IN TEXTILES (2) Cowan

New developments in textile fibers with special emphasis on new fibers, their characteristics, uses, and care. Prereq., 9 hrs. clothing and textiles. (Summer only.)

301. TECHNIQUES IN TEACHING CLOTHING CONSTRUCTION (1 to 3) Bane

Special problems in sizing, alteration, fitting and construction as applied to teaching the high school student. Prereq., 316 or equivalent, teaching experience or certification to teach home economics. (Summer only.)

302. TECHNIQUES IN TEACHING CLOTHING SELECTION (1) Bane

Methods of presenting clothing selection on the high school level with emphasis on psychological and economic aspects of clothing. Consumer and market trends to be included. Prereq., 316 or equivalent, teaching experience or certification to teach home economics. (Summer only.)

310. TECHNIQUES IN CLOTHING DESIGN (2) Bane

An advanced course in clothing that offers opportunity for creative expression and for an understanding of patterns through the medium of flat pattern design. 1 lec., 3 lab. Prereq., 4, 110. (Summer only.)

313. CLOTHING AND TEXTILES FOR THE CONSUMER (2) Cowan

Problems presented to the buyer and the consumer in purchasing textile products such as lingerie, home-furnishing fabrics, ready-to-wear, and accessories. Prereq., 9 hrs. clothing and textiles, Ec. 11 or 101. (Not offered 1960-61.)

315. HISTORY OF COSTUME AND TEXTILES (2) Cowan

Study of costume and textiles through the ages as a basis for the understanding and appreciation of present-day costumes. Prereq., 4, 110. (Not offered 1961-62.)

316. TAILORING (3) Bane

Tailoring of suits or coats. Emphasis placed on professional techniques, advanced fitting problems, and construction of high fashion garments. 6 lab. and demonstration. Prereq., 4, 110.

318. ADVANCED TEXTILES (3) Cowan

Physical and chemical examination of fibers and fabrics. Problems in the comparison and evaluation of fabrics. 1 lec., 4 lab. Prereq., 4, 110, Chem. 3.

319a, b. SPECIAL STUDIES IN TEXTILES OR CLOTHING (3 to 6) Bane, Cowan

Intensive study of problems related to textiles or clothing. Maximum credit in each area, 6 hrs.; total in course, 12 hrs. Prereq., 12 hrs. clothing and textiles and permission.

(a) Clothing. (3)

(b) Textiles. (3)

HUMAN RELATIONS

Professors A. C. Anderson, Patrick
Associate Professor B. R. Black (chairman)
Assistant Professor Butler
Instructors E. I. Anderson, G. Keller

Courses are designed to contribute to the general education of students in any field. Majors in any area who plan to prepare for personnel work in business and industry, social work and administration, government agencies, or education are invited to confer with members of the staff about selection of courses.

291-292. PRACTICUM IN STUDENT PERSONNEL (3-3) E. I. Anderson

A survey of the problems of orientation of freshmen to college. Supervised experience including observation, discussion, and practice in personnel and guidance. 1 lec., minimum of 4 lab. Prereq., permission. (Yearly.)

301. MARRIAGE (3) Patrick and Associates McQuate, Organ, W. Peterson, Schmidt

A clinical approach to the problems of dating, courtship, marriage, parenthood, and childhood adjustments in the light of scientific and philosophical thinking of today. Prereq., for undergraduate credit, junior or senior rank; for graduate credit, 12 hrs. social sciences, or 6 hrs. social sciences and 6 hrs. biology. (2nd sem., yearly.)

303-304. HUMAN RELATIONS (3-3) A. C. Anderson, Black

A course taught by the case method, designed for students interested in studying the habits and skills of analysis, judgment, and action important to people in all walks of life. Prereq., junior, senior or graduate rank. (303, each semester; 304, 2nd sem., yearly.)

325. FIELD WORK OR RESEARCH (1 to 3) Staff

An opportunity for individual work in a specialized area of human relations; field work in human relations; or supervised work for a specified time in the offices of admissions, registrar, O. U. Center, housing, and University College; or research under the direction of the staff. Maximum credit in course, 5 hrs. Prereq., 303, permission. (Each sem.)

491. SEMINAR IN HUMAN RELATIONS (3) Staff
Prereq., 303, permission. (1st sem., yearly.)
- 493, 494. SEMINAR IN STUDENT PERSONNEL ADMINISTRATION (3, 3) Black
Designed for those specializing in student personnel work. Emphasis on philosophy and current trends in student personnel work and administrative procedures for effective coordination of services within a student personnel program. Prereq., 18 hrs. social sciences; permission. (Yearly.)
495. THESIS (1 to 6) Staff
Prereq., permission.

HUMANITIES—See General Studies

INDUSTRIAL ARTS

Associate Professors Paige (chairman),
Perry (on leave 1960-61)
Assistant Professors Calvin, Hawk, Weber
Instructors Adams, Armbruster, Shull, Squibb, Covert

The requirements for an industrial arts major in the program leading to a Bachelor of Science in Education degree are outlined in the College of Education section of the catalog. The program outline for the Bachelor of Science in Industrial Technology degree is described in the College of Applied Science section.

- 1, 2. GENERAL WOODWORKING (3, 3) Paige
A required beginning course for prospective teachers. Open to other students on an elective basis. 1 lec., 4 lab. 1, hand woodworking; 2, machine woodworking. Prereq., 1.
3. WOODWORKING INDUSTRY (3) Paige
A beginning course for technical students. 1 lec., 4 lab.
5. DRIVER EDUCATION (1) Covert
A course for novice drivers. Credit and points not counted toward degree. 1 lec., 2 lab. Fee, \$15.
6. WOOD TURNING (2) Paige
A course in wood lathe operation. 4 lab. (2nd sem., alternate years.)
9. CRAFT AND HOBBY WORK (2) Perry
A beginning course in leather art metal, enameling, reed, and plastics. Open to any student in the University. 4 lab.
12. SHOP ORIENTATION (1) Adams
Operation of metalworking machinery. For electrical engineering majors only. 2 lab.
13. GENERAL COLD METALS (3) Adams, Calvin
Sheet metal, bench metal, and machine shop practice. 1 lec., 4 lab.
14. GENERAL HOT METALS (3) Armbruster, Squibb
Forging, foundry, and welding practice. 1 lec., 4 lab.
19. AUTOMOTIVE THEORY AND REPAIR (3) Shull
Emphasis on servicing and overhauling the engine and chassis. 1 lec., 4 lab.

51. FARM SHOP (3) Shull
Practice in common farm construction and repair. 1 lec., 4 lab.
Prereq., agriculture majors. (1st sem., alternate years.)
102. PRACTICAL CARPENTRY (3) Paige
Fundamental processes involved in wood construction. 6 lab. Prereq.,
3. (2nd sem., yearly.)
104. FURNITURE UPHOLSTERY (2) Paige
Construction and repair of upholstered furniture. 4 lab. (1st sem.,
yearly.)
105. MATERIALS AND FINISHES (3) Paige
Sources, manufacture, and application of common materials and finishes. 3 lec. (1st sem., yearly.)
106. ADVANCED WORK IN CRAFTS (2) Perry
Practice in original design and skill development in some craft area.
4 lab. Prereq., 9 or permission. (2nd sem., yearly.)
107. SHEET AND ART METAL (2) Adams
Emphasis on development, design, and applications of mass production. 4 lab. Prereq., 13 or permission. (1st sem., yearly.)
109. CABINET MAKING (2 or 3 as scheduled) Paige
Individually designed project construction. 4 or 6 lab. Prereq., 2.
(1st sem., yearly.)
115. INDUSTRIAL ARTS FOR THE ELEMENTARY SCHOOL (1 or 2) Perry
Planning and construction of projects associated with classroom work. Elementary education majors only. 2 to 4 lab. (Summer only.)
116. CONSTRUCTIVE DESIGN (2) Squibb
Principles of design and their application to industrial arts projects. 4 lab. (2nd sem., yearly.)
117. SHOP AND MACHINE MAINTENANCE (2 to 4) Shull
Practice in maintenance of tools and machines. 4 to 8 lab. Prereq.,
permission. (1st sem., yearly.)
121. PATTERN MAKING (2) Paige
Practice in construction of wood patterns for metal castings. 4 lab.
Prereq., 1 or 3, 14 or permission. (2nd sem., alternate years.)
122. ADVANCED FOUNDRY (2) Armbruster
Practice in various molding and core making techniques. 4 lab.
Prereq., 14, 121. (1st sem., alternate years.)
124. MACHINE SHOP (2) Calvin
Operation of engine lathe, milling machine, shaper, and grinders. 4 lab. Prereq., 13 or permission. (2nd sem., yearly.)
128. ADVANCED METAL WORK (3) Staff
Inspection, product control, gauging, measuring, and technical operations in hot and cold metal areas. 6 lab. Prereq., permission.
129. WELDING (2) Squibb
Practice in oxy-acetylene, electric arc, and spot welding. 4 lab.
Prereq., 14.

131. CERAMICS (2) Hawlk
Practice in common forming, firing, and glazing techniques employed in the ceramic industry. 1 lec., 3 lab.

133. PRACTICAL ELECTRICITY (3) Perry
Study of electrical sources, principles, and measurements. Separate sections are offered for education and technology majors. 1 lec., 4 lab.

134. PRACTICAL POWER AND TRANSPORTATION (3) Shull
Study of air, steam, water, electricity, and gas combustion as sources of power. 1 lec., 4 lab.

141, 142. GRAPHIC ARTS (3, 3) Weber
A course to meet requirements in graphic arts for potential teachers. 141: letterpress, block printing, intaglio, and common duplicating techniques; 142: offset lithography, photography, silkscreen printing, and bookbinding. 1 lec., 4 lab.

144. GRAPHIC ARTS PROCESSES (3) Weber
A course for technology students. Study involves a variety of processes and materials used in the printing industry. 1 lec., 4 lab.

147. ADVANCED GRAPHIC ARTS (2 to 4) Weber
Problems in letterpress and offset printing. Emphasis on layout and design. 4 to 8 lab. Prereq., 141, 142; or 144 and permission. (2nd sem., yearly.)

199. ADMINISTRATION OF DRIVER EDUCATION (2 or 3) Covert
A basic course for prospective teachers of this subject. Enrollment should be deferred until personal driving skill is developed. 2 lec., 2 lab. Prereq., Psych. 5.

203. INDUSTRIAL ELECTRONICS (3) Armbruster
Theory and practice in the use and care of electronic apparatus employed for communication and production control in industry. 1 lec., 4 lab. Prereq., 133. (2nd sem., yearly.)

260. TEACHING OF INDUSTRIAL ARTS (3) Calvin
Methods of presenting technical and related material in industrial arts classes. 3 lec. Prereq., 12 hrs. (1st sem., yearly.)

299. PROBLEMS IN SAFETY EDUCATION (2) Covert
Special emphasis on applications in the areas of manufacturing and transportation. 2 lec. (1st sem., yearly.)

302. DEVELOPMENT OF TEACHING AIDS FOR INDUSTRIAL EDUCATION (2) Weber
Construction of aids based upon analysis of teaching situations. Term paper required for graduate credit. 4 lab. Prereq., teaching experience or concurrently with practice teaching.

303. CURRENT TRENDS AND DEVELOPMENTS IN INDUSTRIAL EDUCATION (2) Staff
A study of new developments and undertakings in the field of industrial education. Attention will be directed toward the philosophies directing the movements, the methods of organization, the apparent results, and possible future implications for industrial educators. Prereq., 12 hrs. (Summer only.)

309. ADMINISTRATION OF THE GENERAL SHOP (3) Paige
Types of organization, laboratory planning, equipment selection, and accounting systems are studied. 3 lec. Prereq., 12 hrs. (2nd sem., yearly.)

326. HISTORY OF INDUSTRIAL AND VOCATIONAL ARTS (3) Hawk
328. SPECIAL PROBLEMS IN INDUSTRIAL ARTS (1 to 3) Staff
Research on individual problems selected for investigation and reporting. Prereq., senior rank and permission. (Summer only.)
371. ADMINISTRATION AND SUPERVISION OF INDUSTRIAL EDUCATION (2 or 3) Staff
Problems and practices of supervising vocational and nonvocational industrial education in the public schools. Prereq., permission.
399. WORKSHOP IN DRIVER EDUCATION (1) Staff
A course for teachers. Activity guided by problems in present programs. Prereq., certification in driver education. (Summer only.)
- 450a, b, c, d. ADVANCED WORK IN WOOD, METAL, PRINTING, OR POWER (2) Staff
The course may be repeated in different areas for a maximum credit of 6 hrs. 4 lab. Prereq., (a) Wood, 1, 2; (b) Metal, 13, 14; (c) Printing, 141, 142; (d) Power, 133, 134.
457. CURRICULUM BUILDING IN INDUSTRIAL ARTS (3) Squibb
Prereq., 16 hrs.
481. RESEARCH IN INDUSTRIAL ARTS (1 to 3) Staff
A written report of the investigation is to be presented to the graduate committee of the department. May be repeated for maximum credit of 6 hrs. Prereq., Ed. 488.
491. SEMINAR IN INDUSTRIAL ARTS EDUCATION (1 to 3) Staff
Reports on published materials will be given and discussed. The term paper is to be presented in a style suitable for publication. May be repeated for maximum credit of 6 hrs. Prereq., 15 hrs.
495. THESIS (1 to 6) Staff
Prereq., permission.

JOURNALISM

Professor Hortin (director)
Associate Professors Turnbull, Baird, Hart
Assistant Professors Baxter, Gentry
Instructors Nichols, Reamer, Gilbert

1. ORIENTATION IN JOURNALISM (2) Gentry, Hortin
Analysis of the forms and purposes of journalistic communications—reporting, editing, management, advertising, radio and television, news, public relations, free lance and feature writing, photo-journalism; opportunities for careers in the various sequences; guidance and counseling; survey of facilities.
105. HISTORY OF AMERICAN JOURNALISM (3) Baird
A study of the development of newspaper, magazine, and radio journalism from the colonial period to the present, including political, economic, and mechanical aspects. Prereq., Eng. 4.
107. NEWSPAPER REPORTING (3) Boird, Gentry, Hart
Instruction in methods of gathering material and writing news reports, interviews, reports of speeches, follow-ups and re-writes, human interest stories, and specialized news. Practice work covering assignments and preparing copy. Prereq., Eng. 4, and Sec. St. 15 or the ability to operate a typewriter efficiently.

111. REPORTING PRACTICE

(1 to 6) Reamer

Students are assigned to general reporting on *The Athens Messenger*, which includes the covering of definite news beats as well as special assignments. Prereq., 107, permission.

140. THE COMMUNITY NEWSPAPER

(2) Staff

The course stresses editorial and business phases of weeklies and small dailies. Problems include editing, editorial writing, and rural correspondence; school, church, and business life; circulation, advertising, job printing, and mechanical equipment. Prereq., Eng. 4.

146. TYPOGRAPHY, MECHANICS, AND MAKEUP

(3) Baird, Turnbull

Make-up in type of newspaper pages, following introduction to hand composition. Study of principles of good make-up of ads and news, including correct choice of type. Mechanics of printing reproduction studied.

217. NEWSPAPER AND MAGAZINE EDITING

(3) Gentry, Hart

Principles and practices of copyreading, headline writing, illustration, and make-up for newspapers, tabloids, and magazines. Other phases: picture editing, desk problems, wire and syndicate material. Prereq., 107.

221. EDITING PRACTICE

(1 to 6) Gilbert

Students are assigned to copyreading on *The Athens Messenger*, handling local, correspondence, and wire copy, and working out make-up problems. Prereq., 217 or permission.

230. REVIEWING AND CRITICISM

(2) Gentry

A study and analysis of books, art, drama, music, photography, radio, television, and other public presentations. Students write reviews and criticisms after studying outstanding examples in recognized publications. Prereq., 107, Eng. 4.

247. NEWSPAPER ADVERTISING AND LAYOUT

(3) Nichols, Turnbull

A study of the operation of the advertising department from the viewpoint of the advertising manager. Prereq., Advt. 155.

251. CONTEMPORARY THOUGHT AND DEVELOPMENTS

(3) Hart

Contributions in all phases of modern society are discussed by university faculty members and other authorities. Students are required to do reference reading and to write news reports of the discussions. Prereq., 107, junior or senior rank.

277. NEWSPAPER ADVERTISING PRACTICE

(1 to 6) Nichols

Laboratory work in preparing copy for local display advertisers of *The Athens Messenger*. Other practice problems in the fields of classified, national, and promotion advertising. Prereq., 247.

280. RADIO-TV NEWS WRITING AND EDITING

(2) Baxter

The study and practice of writing and editing news for broadcasting. Students will prepare radio news from local sources and press services. Prereq., 107, Radio 79.

285. RADIO-TV NEWS PRACTICE

(1 to 3) Baxter

A laboratory course in the production of regular newscasts covering both preparation of copy and the actual broadcasts of the script over WOUB and WOUI, AM and FM. Maximum credit in course, 6 hrs. Prereq., 280.

303. TELEVISION NEWS PRODUCTION

(3) Baxter

The preparation and production of television news. Experiments in visual presentation of news and discussion of the organization and policies of the television newsroom. Prereq., 280, Photog. 133, and permission.

306. NEWSPAPER AND COMMUNICATIONS LAW

(2) Hart, Hortin

Principles and case studies of the law of the press with emphasis on constitutional guarantees, libel, contempt, privacy, copyright, privilege, and administrative controls. Some consideration of regulations pertaining to radio and television. Prereq., 217, senior rank.

307. REPORTING OF PUBLIC AFFAIRS

(2) Baird, Gentry

Includes a study of governmental, civic, and business organizations: courts, legal procedure, city and county government, state and national organizations, banks, political parties, and community activities. Prereq., 111, or permission, and senior rank in journalism.

309. RADIO-TV ADVERTISING AND MANAGEMENT

(3) Turnbull

A study of the business principles and practices in the broadcasting industry, dealing with problems in radio and TV station operation, with major emphasis on time sales. Prereq., Advt. 155 or permission.

322. FEATURE AND MAGAZINE WRITING

(3) Baird, Staff

A study of newspaper, magazine, and pictorial features, followed by practice in writing and marketing of various types. The course includes finding subjects, securing photographs, writing articles, and surveying markets. Prereq., 107, or 12 hrs. of English, or permission.

323. ADVANCED FEATURE AND MAGAZINE WRITING

(2) Baird, Staff

Students are permitted wide range in selecting feature subjects. High grade writing is stressed with definite idea of publication. Prereq., 322.

325. THE EDITORIAL PAGE

(2) Gentry, Hart

A study of the editorial page as to purpose, style, and effect. Training is given in writing interpretative news articles, columns, and all types of editorials. Prereq., 111, or 12 hrs. of English, and senior rank, or permission.

327. PUBLIC RELATIONS TECHNIQUES

(3) Hortin, Staff

Study and practice of fundamental public relations functions. Emphasis is placed on polling, publicity writing, and preparation of literature of business organizations—house organs, reports, pamphlets, advertisements, leaflets, manuals, and letters. Prereq., 107, 146, and junior rank, or permission.

328. PUBLIC RELATIONS

(3) Hortin, Staff

A study of advanced public relations problems, policies, and practices of various institutions and organizations in modern society. Attention is focused on public relations program development. Prereq., 327 or permission.

329. BUSINESS AND MAGAZINE JOURNALISM

(2) Baird

Study of industrial, business, and institutional publications. Analysis of contents, purposes, and readership of such publications. Practice in copy preparation and make-up. Staff, costs, printing, and circulation are considered. Prereq., 111, 146.

343. NEWSPAPER MANAGEMENT

(2) Turnbull

A study of the problems and economics of publishing. Consideration is given to policy making as it affects all departments of the newspaper plant. Prereq., junior or senior rank.

348. ADVERTISING PRODUCTION

(2) Turnbull

Study of mechanical, graphic, and creative methods of advertising production; comparative analysis of printing processes; relation of color, art work, type, media, and quality of paper to advertising purpose; study of cost and controls. Prereq., 247 or Advt. 332 or permission.

370. INTERNSHIP

(3) Staff

A conference course open only to students who have completed their internship work with an approved organization. Students will submit a comprehensive report involving analysis and problems encountered during the summer training. Prereq., only by permission; junior rank or above, and completion of summer internship.

375. SPECIALIZED JOURNALISM

(3) Baird, Baxter

A course designed for students desiring training in special fields—science, sports, society, politics, military, home economics, agriculture, religious activities, teaching journalism, music, and other approved areas. Prereq., junior rank or above, permission.

376. GRAPHIC PRODUCTION PROCESSES

(3) Turnbull, Staff

Advanced study of all processes for reproducing the printed word and pictures, including photo-engraving, lithography, letterpress, rotogravure, mimeographing, duplicating. Emphasis is placed on developing a thorough understanding of latest developments in each field as they affect editing, advertising, public relations, and television news. Includes theory and laboratory work in preparation of written and photographic copy for each process. Prereq., 146, senior rank, permission.

378. SUPERVISING SCHOOL AND COLLEGE PUBLICATIONS

(3) Staff

A conference course for advisers of high school and college newspapers, magazines, and yearbooks. Problems relating to staff selection, content of publications, copy, layout, photography, printing, advertising, and business phases. In summer sessions the Publications Workshop will be analyzed on a case study basis. Prereq., 12 hrs. or permission.

381. RESEARCH IN JOURNALISM

(1 to 8) Staff

Prereq., 18 hrs. in journalism and advertising, permission.

403. SEMINAR IN MASS COMMUNICATIONS

(3) Staff

Methods of research in mass communications; the selection, planning, and evaluation of research problems. Study of thesis writing and selection of a thesis problem. Survey of outstanding books and periodical literature in mass communications. Prereq., permission.

406. INTERNATIONAL COMMUNICATIONS

(2) Staff

Advanced study of communications problems and practices of the major countries of the world and the flow of news among them. A comparative analysis of the operating procedures in relation to: newspapers, news agencies, magazines, books, radio, television, public relations, advertising, and management. The relation of communications media to international policies and programs. Prereq., permission.

495. THESIS

(1 to 6) Staff

Prereq., permission.

LATIN—See Classical Languages

LIBRARY SCIENCE

Assistant Professor Wright (Librarian)
Assistant Librarians Chutter, Linnenbruegge

Courses in Library Science under the direction of the University Librarian, in cooperation with the College of Education, provide training for students wishing to qualify as teacher-librarians under the Ohio Department of Education. Library Science 191 is also useful as a general elective for students interested in training for graduate or research work in any field of study. Students in literature or fine arts may find Library Science 194 helpful.

191. THE USE OF LIBRARY RESOURCES

(3) Wright

Training in the effective use of modern library resources. Open to all students in any year. Required for a minor in library science. (1st sem., yearly.)

192. CLASSIFICATION AND CATALOGING OF BOOKS

(3) Chutter

Training in classifying and cataloging books, with practice in the preparation of a card catalog for a high school library. Required for a minor in library science. (2nd sem., yearly.)

194. HISTORY OF BOOKS AND PRINTING

(3) Wright

A survey of the development of books and printing from early times to the present. (2nd sem., 1960-61.)

202. BOOKS FOR HIGH SCHOOL READERS

(3) Linnenbruegge

An introduction to books and book services for the high school age group. (2nd sem., 1961-62.)

291. THE SCHOOL LIBRARY

(3) Linnenbruegge

Study of methods and materials used in organizing school library service, and developing library use among school pupils. Practice work and field trips. Required for a minor in library science. (1st sem., yearly.)

393. ADMINISTRATIVE PROBLEMS IN A SCHOOL LIBRARY (3) Linnenbruegge

Study of practical problems in planning adequate library quarters, selection of furniture and equipment, relations with faculty and with purchasing and finance offices. Prereq., 291. (2nd sem., 1961-62.)

MANAGEMENT

Professor Hellebrandt (chairman)
Assistant Professors Weaver, R. Smith
Instructor Bolon

3. INTRODUCTION TO BUSINESS

(3) Beckert

A survey of the operations of business, large and small, in our capitalistic system with observations of the changes taking place in our free enterprise society. An understanding of the technical language of industry and the development of the vocabulary of business and business terms. Not open to upperclassmen working toward the Bachelor of Science in Commerce degree.

211. INDUSTRIAL MANAGEMENT

(3) Staff

An examination of the basic fundamentals of management underlying the solution of problems of organization and operation in all business enterprise. Prereq., Ec. 12 or 102, junior rank, or permission.

301-302. PRODUCTION MANAGEMENT

(3) Hellebrandt, Smith

An introduction to the more important production procedures and techniques commonly used by progressive manufacturing plants. Deals with methods of supervision used at the lower levels of management in the production field more than with the problems of policy formulation which confront the factory manager. Case and semi-laboratory method used. Prereq., 211, or permission.

302 covers practical training in the more important types of problems encountered by executives at the level of the executive factory manager. The main objective is to develop the ability to analyze and solve problems in management control of production and in the formulation of production policies. Case method used. Prereq., 301, or permission.

308. PRODUCTION PLANNING AND CONTROL

(2 or 3 as scheduled) Smith

Prereq., 211, or permission.

312. ADMINISTRATION OF PERSONNEL

(3) Bolon

Prereq., 211, or permission.

314. PERSONNEL MANAGEMENT PROBLEMS

(3) Bolon

A detailed study of personnel problems and their relation to various personnel management principles dealing with such subjects as induction and training, transfers and promotions, and morale. Case method used. Prereq., 312, or permission.

321. MOTION AND TIME STUDY

(2 or 3 as scheduled) Hellebrandt, Smith

Prereq., 301 or 211 and/or permission.

325. INDUSTRIAL RELATIONS

(2 or 3 as scheduled) Hellebrandt

Objectives, establishment and procedures of collective bargaining; administration of collective bargaining agreements; labor-management cooperation; the methods of conciliation, mediation, and arbitration of disputes. Taught by case method. Prereq., 211, or permission.

330. OFFICE MANAGEMENT

(3) Weaver

(Same as Sec. St. 330.) A study of the office, or information-handling, activities of business organizations and the application of scientific-management principles to the administration of those office services. Prereq., 211 or 312, junior or senior rank.

332. WAGE AND SALARY ADMINISTRATION

(2 or 3 as scheduled) Bolon

The factors determining industrial wage and salary policies, methods of employee payments, wage relationships, wage rate setting, incentive wage plans. The techniques and methods of implementing wage and salary policies. Prereq., 302 or 312.

340. ORGANIZATION

(3) Weaver

Integration of management principles and practices, designed to improve understanding of business organization and operation from an administrative viewpoint; study of the development or organizational theory and management thought as applied to administrative, staff, and operating management and of current concepts in those areas. Emphasis on developing individual, operating management concepts which students can use as a basis for analysis of business problems and evaluation of organizational performance. Prereq., 211 or permission.

345. ADVANCED PRODUCTION PROBLEMS (2 or 3 as scheduled) Hellebrandt

Case studies of production problems in a number of different industries, designed to apply to all phases of the student's training and experience. Prereq., 302, senior rank and/or permission.

350. ELECTRONIC DATA PROCESSING METHODS (3) Weaver

Principles of electronic data processing and of electronic computers, designed to provide background information necessary for understanding the effect of computers on business management and organization. Includes the use of the incident process and case studies. Prereq., 211 or 330 (same as Sec. St. 330), permission.

360. OPERATIONS RESEARCH (3) Weaver

Study of objectives of operations research and of techniques used. Designed to provide understanding of its purposes and applications in business. Includes consideration of Linear Programming, Dynamic Programming, and other operations research techniques. Prereq., 340 and 350 or permission.

381. RESEARCH IN MANAGEMENT (1 to 8) Staff

Prereq., 16 hrs. economics and/or commerce, including Mgt. 301 or 312, and permission.

391. SEMINAR IN MANAGEMENT (2 to 4) Staff

Maximum credit in course, 10 hrs. Prereq., 15 hrs. management and /or economics and permission.

495. THESIS (1 to 6) Staff

Prereq., permission.

Additional courses: Ec. 335—Labor Economics, Ec. 338—Labor Legislation, Stat. 271—Analysis of Statistical Data, Stat. 303—Statistical Quality Control, Stat. 341—Business Cycles, and Stat. 345—Forecasting.

MARKETING

Professor Krauskopf
Associate Professors Paynter (chairman), Raymond
Assistant Professor Richmond

155. MARKETING PRINCIPLES (3) Krauskopf, Paynter, Raymond, Richmond

The principles, methods, and policies of marketing consumers' goods and industrial goods. Prereq., Ec. 12 or 102.

258. MARKETING PROBLEMS (3) Raymond

A consideration by the case method of the problems facing the producer and the middleman. Prereq., 155.

271. PRINCIPLES OF PERSONAL SELLING (2) Raymond

The fundamentals of personal salesmanship and the problems involved in the relationship of the personal salesman to the sales organization. Prereq., 155.

276. SALES MANAGEMENT (2) Raymond

Problems in the management of the sales organization and in some of the immediately related fields of management. Prereq., 155.

301. RETAIL SELLING POLICIES (3) Paynter

The organization and operation of retail institutions. Prereq., 155.

302. RETAIL BUYING AND STOCK CONTROL (3) Paynter

A study of buying, receiving, and stock control practices in retail stores. Prereq., 301.

311. RECENT TRENDS IN MARKETING AND SELLING (3) Krauskopf, Paynter

Prereq., 155.

325. INDUSTRIAL MARKETING (3) Paynter, Raymond
A consideration of the problems involved in the marketing of industrial goods. Prereq., 155.

326. INDUSTRIAL PURCHASING (3) Paynter
A study of the procedures and problems involved in the procurement of industrial goods. Prereq., 155.

341. FOREIGN TRADE (3) Paynter
A study of the theories of foreign trade and of the problems of concerns engaged in importing and exporting. Prereq., 155.

346. FOREIGN MARKETS (2) Paynter
A study of foreign markets from the point of view of the American exporter. Prereq., 155.

352. PROBLEMS IN SALES MANAGEMENT (2) Raymond
Problems of sales administration and selling policies by the case method. Prereq., 258 or 271, 276.

381. RESEARCH IN MARKETING (1 to 8) Staff
Prereq., 18 hrs. commerce, including 5 hrs. marketing, permission.

391. SEMINAR IN MARKETING (2 to 4) Staff
Maximum credit in course, 10 hrs. Prereq., 18 hrs. commerce, including 5 hrs. marketing, permission.

495. THESIS (1 to 6) Staff
Prereq., permission.

MATHEMATICS

Professors Marquis, Denbow, Goedicke
Associate Professors Butner (chairman), Fishback, Jasper
Assistant Professors Spring, Hood, McCue, Mack, S. Lin
Instructors Diekhans, M. R. LeBoutillier, N. Johnson,
Golos, Karns, Lackner

The major requirement for the A.B. or B.S. degree is 14 hours in courses numbered above 102, including at least two courses numbered above 300. Courses numbered 9, 14, 16, 101, 102, 104, 268, 301, and 307 are recommended for secondary teachers.

1. ELEMENTARY ALGEBRA (3) Staff
A course for students with no high school algebra. (Summer only.) Credit and points not counted toward degree.

2. EUCLIDEAN GEOMETRY (3) Staff
A course for students with no high school geometry. Prereq., 1, or 1 yr. high school algebra. (Summer only.) Credit and points not counted toward degree.

3. INTERMEDIATE ALGEBRA (3) Staff
Review of high school algebra; topics from college algebra. Prereq., 2 or 1 yr. each in algebra and geometry in high school. (Each sem.)

9. FUNDAMENTALS OF MATHEMATICS (3) Staff
A critical reanalysis and review of the basic concepts of algebra. Not open to students who have had Math. 14 or 15. For premedical and pre dental students and prospective secondary teachers. Prereq., 2 or 1 yr. each in high school algebra and geometry. (1st sem. yearly.)

10. FUNDAMENTALS OF MATHEMATICS (3) Staff

An introduction to the basic concepts of analytic geometry and calculus, and topics in modern mathematics. Not open to students who have had 16. Prereq., 3 or 9. (2nd sem., yearly.)

14. TRIGONOMETRY (3) Staff

A study of trigonometric functions, identities, and equations with applications; complex numbers. Prereq., 9, or with 9, or 3 with minimum grade of C. (Each sem.)

15. FRESHMAN MATHEMATICS (5) Staff

Algebra and plane trigonometry. Not open to students who have had 3, 9, or 14. Prereq., 2, or 1 yr. each in high school algebra and geometry, or equivalent. (Each sem.)

16. ANALYTIC GEOMETRY AND CALCULUS (5) Staff

Topics in analytic geometry, functions and limits, differentiation and integration of algebraic forms, application of derivatives, and integration. Prereq., 14 or 15, or qualification by examination. (Each sem.)

34. MATHEMATICS OF FINANCE (3) Staff

A study of interest, annuities, sinking funds, valuation of bonds, capitalized cost, life insurance, and life annuities. Prereq., 3. (2nd sem., yearly.)

101. ANALYTIC GEOMETRY AND CALCULUS (4) Staff

Conics, differentiation and integration of transcendental functions, polar coordinates, parametric equations, curvature, integration, and indeterminate forms. Prereq., 16. (Each sem.)

102. ANALYTIC GEOMETRY AND CALCULUS (4) Staff

Solid analytic geometry, series, expansion of functions, partial derivatives, multiple integrals, and elementary differential equations. Prereq., 101. (Each sem.)

104. COLLEGE GEOMETRY (3) Staff

Review of plane geometry, elementary transformations, and classification of geometries. Prereq., 16. (2nd sem., yearly.)

111. FUNCTIONAL MATHEMATICS (3) Staff

Study of number systems, algebraic processes, and nature of proof. Emphasis on functional competence. Prereq., high school algebra, plane geometry. Open to elementary education majors only. (Each sem.)

207. INTRODUCTION TO MATHEMATICAL STATISTICS (3) Butner, McCue

A beginning course in statistics; presentation and description of data; basic concepts of probability; applications of sampling theory; tests of statistical hypotheses; simple correlation; quality control. Prereq., 102. (1st sem., yearly.)

268. TEACHING OF MATHEMATICS IN HIGH SCHOOL (2) Hood, Jasper

An analysis of the basic ideas of algebra and geometry. Methods of presenting topics in these subjects to junior and senior high school students. Prereq., 16, Psych. 5. (2nd sem., yearly.)

301. ARITHMETICAL AND ALGEBRAIC SYSTEMS (3) Lin, Spring

Properties and structures of number systems; selected topics from theory of equations and linear algebra. Prereq., 102 or with 102. (1st sem., yearly.)

307. ORIGINS AND DEVELOPMENT OF ELEMENTARY MATHEMATICS

(3) Denbow, Hood

A study of the historical development of mathematics from an unorganized body of empirical results to a deductive discipline, with emphasis upon the increasing rigor in the methods and increasing power and generality in the results. Selected modern topics are considered in connection with related ones in elementary mathematics. Prereq., 102 or with 102. (1st sem., 1961-62.)

308. PROJECTIVE GEOMETRY

(3) Lin, Marquis

Prereq., 102. (2nd sem., 1960-61.)

311. NUMERICAL ANALYSIS

(3) Goedicke, McCue

An investigation of numerical methods for approximate solution of applied problems. Topics will include interpolation theory, curve fitting, approximate integration, and the numerical solution of differential equations. Prereq., 102. (1st sem., 1960-61.)

315. ADVANCED APPLIED MATHEMATICS

(3) Staff

An introductory treatment of elementary and series solution of differential equations, Fourier series, Laplace transforms, vector algebra, and matrices. Prereq., 102. (Each sem.)

316. ADVANCED APPLIED MATHEMATICS

(3) Staff

Vector calculus, partial differential equations and boundary value problems, and complex variables. Prereq., 315. (2nd sem., yearly.)

318. DIGITAL COMPUTER PROGRAMMING

(3) Marquis, Spring

Number and instruction representations and arithmetic operations in digital computers, principles of program construction, computation sequences, jumps and loops, routines and subroutines, error diagnosis, interpretive routines, multiple precision, and floating point. Prereq., 311 or 315. (2nd sem., 1960-61.)

321. MATRIX THEORY

(3) Fishback, Jasper

Matrix algebra and determinants, linear equations and linear dependence, vector spaces and linear transformations, characteristic equation, and quadratic forms. Prereq., 102. (1st sem., 1961-62.)

322. INTRODUCTION TO MODERN ALGEBRA

(3) Denbow, Fishback

Development of the postulates of group theory, fields, and rings. Prereq., 301 or 321. (2nd sem., 1961-62.)

332. THEORY OF STATISTICS

(3) Butner, Goedicke

Distributions of one and several variables, sampling theory, correlation, analysis of variance, and testing of statistical hypotheses. Prereq., 207. (2nd sem., 1961-62.)

341-342. ADVANCED CALCULUS

(3-3) Butner, Mack

Critical treatment of limits, continuity, differentiation of functions of one and several variables, series, definite and multiple integrals, and line integrals. Prereq., 102 for 341. (Yearly.)

343-344. THEORY OF FUNCTIONS OF A COMPLEX VARIABLE

(3-3) Marquis, McCue

Prereq., 315 or 341 for 343. (1960-61.)

346. THEORY OF FUNCTIONS OF REAL VARIABLES

(3) Hood, Mack

Prereq., 341. (2nd sem., 1961-62.)

361. STUDIES IN MATHEMATICS

(1 to 6) Staff

Selected topics in mathematics are studied under the guidance of an instructor particularly interested in the field. Maximum credit in course, 6 hrs. Prereq., 18 hrs., permission.

495. THESIS

(1 to 6) Staff

Prereq., permission.

MECHANICAL ENGINEERING—See Engineering

MODERN LANGUAGES

GERMAN

Professor Krauss

Associate Professor Lederer

Assistant Professor Benson (chairman)

Instructors Johnson, Fugate

The major requirement for the A.B. degree is a minimum of 24 hours above course 1-2, including 209-210 and at least 12 hours in 300 level courses. Two hours must be in 371 or 372.

1-2. BEGINNING GERMAN

(4-4) Staff

(Yearly.)

101-102. INTERMEDIATE GERMAN

(4-4) Staff

Prereq., 2. (Yearly.)

103. GERMAN FOR CHEMISTS

(2) Fugate, Johnson

Prereq., 101. (2nd sem., yearly.)

108. GERMAN CONVERSATION

(3) Krauss

Prereq., 101. (2nd sem., yearly.)

209-210. GERMAN COMPOSITION AND GRAMMAR REVIEW

(2-2) Lederer

Prereq., 102. (1960-61.)

301, 302. SURVEY OF GERMAN LITERATURE

(3, 3) Lederer

Prereq., 102. (1960-61.)

303, 304. READINGS FROM GERMAN LITERATURE

(1 to 4, 1 to 4) Staff

Prereq., 102. (Given upon sufficient demand.)

311, 312. NINETEENTH CENTURY GERMAN DRAMA

(3, 3) Lederer

Prereq., 102. (1961-62.)

313. CLASSICAL GERMAN DRAMA

(3) Krauss

Prereq., 102. (1st sem., 1960-61.)

314. GOETHE'S FAUST

(3) Krauss

Prereq., 102. (2nd sem., 1960-61.)

319, 320. NINETEENTH CENTURY GERMAN SHORT STORY

(2, 2) Krauss

Prereq., 102. (1961-62.)

321. CONTEMPORARY GERMAN SHORT STORY

(2) Krauss

Prereq., 102 (1st sem., 1960-61.)

323. GERMAN LYRICS AND BALLADS (2) Krauss
Prereq., 102. (1st sem., 1961-62.)
326. TWENTIETH CENTURY GERMAN DRAMA (3) Lederer
Prereq., 2 hrs. beyond 102. (2nd sem., 1960-61.)
351. ADVANCED GERMAN GRAMMAR AND STYLE (2) Lederer
Prereq., 210. (2nd sem., 1960-61.)
- 371, 372. ADVANCED GERMAN (1 to 4, 1 to 4) Staff
Maximum credit in course, 8 hrs. Prereq., 6 hrs. beyond 102.
(Yearly.)
- 391-392. INTRODUCTION TO MIDDLE HIGH GERMAN (2-2) Lederer
Prereq., 10 hrs. beyond 102. (1961-62.)
- 471, 472. READING AND RESEARCH (1 to 4, 1 to 4) Staff
Maximum credit in course, 8 hrs. Prereq., graduate standing. (Given
upon sufficient demand.)
495. THESIS (1 to 6) Staff
Prereq., permission. (Yearly.)

ROMANCE LANGUAGES

Professors Wilkinson, Ondis
Associate Professors Renkenberger (chairman), Rice
Assistant Professors Andrade, Cameron, Kadlec
Instructors Bolen, Zahareas

The major requirement in French, Italian, or Spanish for the A.B. degree is 20 hours above course 1-2 in the language. Students planning to do graduate work in any Romance Language are strongly urged to acquire a background of training in Latin.

FRENCH

- 1-2. BEGINNING FRENCH (4-4) Staff
(Yearly.)
- 101-102. INTERMEDIATE FRENCH (4-4) Staff
Prereq., 2, or 2 yrs. high school French. (Yearly.)
- 213, 214. FRENCH CONVERSATION (3, 3) Bolen
Prereq., 102, or 4 yrs. high school French. (Yearly.)
- 301, 302. SURVEY OF FRENCH LITERATURE (3, 3) Renkenberger
Prereq., 102, or 4 yrs. high school French. (1961-62.)
- 303, 304. READINGS FROM FRENCH LITERATURE (3, 3) Staff
Selections vary with the needs of the class or the student. Prereq.,
102. (Given upon sufficient demand.)
- 331, 332. SEVENTEENTH CENTURY FRENCH LITERATURE (3, 3) Rice
Prereq., 102, or 4 yrs. high school French. (1961-62.)
- 335, 336. EIGHTEENTH CENTURY FRENCH LITERATURE (3, 3) Renkenberger
Prereq., 102, or 4 yrs. high school French. (1960-61.)
- 361, 362. ADVANCED FRENCH GRAMMAR (3, 3) Rice
Prereq., 102. (1960-61.)

381. RESEARCH IN FRENCH LANGUAGE AND LITERATURE (1 to 4) Staff

A course designed to promote independent work in special literary and linguistic problems. Maximum credit in course, 6 hrs. Prereq., 12 hrs. beyond 102, permission. (Given upon sufficient demand.)

495. THESIS (1 to 6) Staff

Prereq., permission.

ROMANCE PHILOLOGY

421-422. ROMANCE PHILOLOGY (OLD FRENCH) (2-2) Ondis

Prereq., 16 hrs. in French and 16 hrs. in another Romance Language or Latin. (1961-62.)

441-442. ROMANCE PHILOLOGY (OLD SPANISH) (2-2) Ondis

Prereq., 16 hrs. in Spanish and 16 hrs. in another Romance Language or Latin. (1960-61.)

SPANISH

1-2. BEGINNING SPANISH (4-4) Staff
(Yearly.)101-102. INTERMEDIATE SPANISH (4-4) Staff
Prereq., 2 or 2 yrs. high school Spanish. (Yearly.)213, 214. SPANISH CONVERSATION (3, 3) Andrade
Prereq., 102. (Yearly.)301, 302. SURVEY OF SPANISH LITERATURE (3, 3) Cameron
Prereq., 102. (1961-62.)303, 304. READINGS FROM SPANISH LITERATURE (3, 3) Staff
Selections vary with the needs of the class and the student. Prereq. 102. (Given upon sufficient demand.)305, 306. THE SPANISH DRAMA (3, 3) Ondis
Prereq., 102 or 4 yrs. high school Spanish. (1960-61.)313. NINETEENTH CENTURY SPANISH LITERATURE (3) Cameron
Prereq., 102. (1960-61.)314. CONTEMPORARY SPANISH LITERATURE (3) Cameron
Prereq., 102. (1960-61.)351, 352. ADVANCED SPANISH GRAMMAR (3, 3) Ondis
Prereq., 102, or 4 yrs. high school Spanish. (1961-62.)381. RESEARCH IN SPANISH LANGUAGE AND LITERATURE (1 to 4) Staff
Maximum credit in course, 6 hrs. Prereq., 12 hrs. beyond 102 and permission.495. THESIS (1 to 6) Staff
Prereq., permission.

RUSSIAN

Assistant Professor Benson

1-2. BEGINNING RUSSIAN (4-4) Benson
(Yearly.)

- 101-102. INTERMEDIATE RUSSIAN (4-4) Benson
Prereq., 2. (Yearly.)
- 201, 202. NINETEENTH CENTURY PROSE READINGS (2, 2) Benson
Prereq., 102. (Yearly.)
- 301, 302. ADVANCED READINGS IN LITERATURE (1 to 3, 1 to 3) Benson
Maximum credit in course, 6 hrs. Prereq., 4 hrs. beyond 102.
(Yearly.)

MUSIC

Professors Ingerham, Ahrendt (director)
Associate Professors Fontaine, P. Peterson, Stephenson, Malone
Assistant Professors Longstreet, Roach,
Blayney, Thackrey, Morley, Witzler, Merritt,
Minelli, Jennings, Brophy, Hall, Conkling,
Bergsagel, Reims, Hamilton
Instructors R. D. Smith, Comin
Lecturers Sears, Csiby, Katz
Visiting Lecturer Gates

APPLIED MUSIC

Private instructional fee for all applied music (piano, voice, organ, strings, woodwind, brass, percussion), \$20 a semester hour.

(Note: A description of the proficiency requirements for applied music may be secured from the School of Music.)

VOICE (1 to 3) Merritt, Peterson, Reims, Roach
Prereq., permission.

PIANO (1 to 3) Csiby, Fontaine, Jennings, Katz, Longstreet
Prereq., permission.

ORGAN (1 to 3) Hamilton
Prereq., permission.

STRINGED INSTRUMENTS: Violin, Viola, Violoncello, Bass (1 to 3) Conkling, Ingerham
Prereq., permission.

WOODWIND INSTRUMENTS: Flute, Oboe, Clarinet, Bassoon (1 to 3) Witzler
Prereq., permission.

BRASS INSTRUMENTS: Trumpet, Baritone, Horn, Trombone, Tuba (1 to 3) Brophy, Smith
Prereq., permission.

PERCUSSION INSTRUMENTS (1 to 3) Minelli
Prereq., permission.

BRASS CHOIR (1) Brophy
Prereq., permission.

UNIVERSITY BANDS (1) Brophy, Minelli
Open to men and women students. Prereq., permission.

UNIVERSITY CHORUS (1) Hamilton
Open to men and women students. Prereq., permission.

- UNIVERSITY SYMPHONY ORCHESTRA (1) Ahrendt
Open to men and women students. Prereq., permission.
- MEN'S GLEE CLUB (1) Peterson
Open to men students. Prereq., permission.
- WOMEN'S GLEE CLUB (1) Merritt
Open to women students. Prereq., permission.
- 66-67. CLASS PIANO (1-1) Blayney
Prereq., permission.
- 251-252. CHAMBER MUSIC (1-1) Staff
Participation in the playing of the standard chamber music literature. Prereq., permission. Maximum credit in course, 6 hrs.
273. CONDUCTING (2) Ingerham
Fundamentals of conducting, accompanied by individual practice in conducting. For music majors only; open to others by permission. Prereq., 104 and 106.
331. PIANO ENSEMBLE (1) Staff
Participation in the playing of original works or arrangements for two pianos. Prereq., permission.
332. VOCAL ENSEMBLE (1) Staff
Participation in the singing of standard madrigal and motet literature. Maximum credit in course, 4 hrs. Prereq., permission.
375. ADVANCED CONDUCTING (1 to 4) Staff
An opportunity for study and practical experience in either choral or instrumental conducting. Maximum credit in course, 6 hrs. Prereq., 273, permission.
431. VOICE (1 to 4) Merritt, Peterson, Reims, Roach
Maximum credit in course, 16 hrs. Prereq., permission.
433. PIANO (1 to 4) Csiby, Fontaine, Jennings, Katz, Longstreet
Maximum credit in course, 16 hrs. Prereq., permission.
435. ENSEMBLE (1 to 4) Staff
Maximum credit in course, 16 hrs. Prereq., permission.
437. STRINGED INSTRUMENTS (1 to 4) Conkling, Ingerham
Maximum credit in course, 16 hrs. Prereq., permission.
439. WOODWIND INSTRUMENTS (1 to 4) Witzler
Maximum credit in course, 16 hrs. Prereq., permission.
441. BRASS INSTRUMENTS (1 to 4) Brophy, Smith
Maximum credit in course, 16 hrs. Prereq., permission.
443. PERCUSSION INSTRUMENTS (1 or 2) Minelli
Maximum credit in course, 8 hrs. Prereq., permission.
495. RECITAL (1 to 4) Staff
A full-length public recital, a recording of which will be filed in the library, in lieu of a thesis. Prereq., permission.

MUSIC HISTORY AND LITERATURE

5. MUSIC APPRECIATION (2) Sears, Thackrey
The form and meaning of musical masterpieces. Not open to music majors or those who have received credit for F.A. 123-124.
337. THE LITERATURE OF VOCAL MUSIC (2) Bergsagel
Representative literature from the fields of oratorio, choral music, and art song. Prereq., F.A. 124.
338. THE LITERATURE OF ORCHESTRAL MUSIC (2) Ingerham
Orchestral literature from the classic through the contemporary. Prereq., F.A. 124.
339. THE EVOLUTION OF THE OPERA (3) Bergsagel
Prereq., F.A. 124.
340. THE LITERATURE OF PIANO MUSIC (2) Fontaine
The development of the instrument, the primary forms adapted to it, and the representative composers. Prereq., F.A. 124.
341. MUSIC OF THE MEDIEVAL AND RENAISSANCE PERIODS (3) Bergsagel
Music as an artistic expression of the Medieval and Renaissance periods; a history of the evolution of musical styles up to c.1600. Prereq., F.A. 124, permission.
342. MUSIC OF THE BAROQUE PERIOD (3) Bergsagel
Music as an artistic expression of the Baroque period; a history of the evolution of musical styles c.1600-c.1750. Prereq., F.A. 124, permission.
343. MUSIC OF THE CLASSIC AND ROMANTIC PERIODS (3) Hall
Music as an artistic expression of the Classic and Romantic periods; a history of the evolution of musical styles c.1750-c.1900. Prereq., F.A. 124, permission.
344. CONTEMPORARY MUSIC (3) Hall
Music as an artistic expression of our time; a study of the various styles since c.1900. Prereq., F.A. 124, permission.
- 401-402. MUSIC LITERATURE (3-3) Bergsagel
Prereq., F.A. 124, permission.
495. THESIS (1 to 6) Staff
Prereq., permission.

THEORY AND COMPOSITION

- 3-4. THEORY (3-3) Hall
A beginning study of the melodic, harmonic, and rhythmic principles of music and its notation. 5 hrs. a week.
- 103-104. DICTATION AND SIGHT SINGING (2-2) Hall
Should be taken concurrently with 105-106. 3 hrs. a week. Prereq., 4 with a minimum grade of C.
- 105-106. HARMONY (3-3) Hall
Harmonization of melodies and figured basses, both written and at the keyboard. Improvisation, transposition. 4 hrs. a week. Prereq., 4 with a minimum grade of C.

- 201-202. ANALYSIS AND FORM (2-2) Fontaine
Harmonic and structural analysis of music composition. Prereq., 106.
233. INSTRUMENTATION (3) Minelli
The various orchestral instruments from the standpoint of their range and orchestral uses. Arranging for small ensembles. 3 hrs. a week and participation in Instrumental Workshop. Prereq., 106.
- 307-308. ARRANGING AND SCORING FOR BANDS (2-2) Minelli
Scoring and arranging for the modern marching and symphonic band. Prereq., 104, 106, 233.
- 313-314. ORCHESTRATION (2-2) Ahrendt
Scoring for small, medium, and full orchestra. Prereq., 104, 106.
- 315-316. ADVANCED HARMONY (2-2) Hall
The evolution of harmony to the present, including the new methods of chord structure in modern harmony. Prereq., 104 and 106.
- 317-318. COUNTERPOINT (2-2) Fontaine
Single counterpoint in all species in two, three, or four parts. Development of motive, double counterpoint, free writing on original themes. Prereq., 104, 106.
- 319-320. COMPOSITION (2-2) Ahrendt
Original writing in the smaller forms. Prereq., 104, 106.
- 357-358. COUNTERPOINT (2-2) Fontaine
Double and triple counterpoint with and without free parts. Special attention is given to the *Inventions* and *Partitas* of Bach. Prereq., 318.
- 371-372. COMPOSITION (2-2) Ahrendt
Original writing in the larger forms. Prereq., 320.
384. RESEARCH IN MUSIC (1 to 4) Staff
Prereq., 30 hrs. or the equivalent. Permission.
403. SEMINAR IN MUSIC (1) Staff
Reports on research by students or faculty, for discussion. Required of all graduate students enrolled in the School of Music. Maximum credit in course, 2 hrs. Prereq., permission. (Yearly.)
- 407-408. EVOLUTION OF HARMONIC THEORY (2-2) Bergsagel, Hall
A study of the writings of the most important music theorists from the tenth century to the present. Prereq., 106, F.A. 124, 1 yr. of Cpt., 202, 314, 316.
- 409-410. CANON AND FUGUE (2-2) Fontaine
A critical study of the classic canon in all its forms. Complete familiarity with the *Well-Tempered Clavichord* is expected. A fully developed original fugue in four voices is necessary for credit. Prereq., 358, permission.
- 425-426. COMPOSITION (2-2) Ahrendt
Extensive writing in the larger vocal and instrumental forms. Prereq., 372.
- 427-428. ADVANCED ORCHESTRATION (2-2) Ahrendt
Problems in scoring original works for the modern symphony orchestra. Satisfactory scores are performed by the University Symphony Orchestra. Prereq., 314, 318.

429. SIXTEENTH CENTURY COUNTERPOINT (2) Fontaine

The techniques of the period, particularly as evidenced in the works of Palestrina and Lassus. Original writing in the sixteenth century model style. Prereq., 318, permission.

495. THESIS (1 to 6) Staff

Prereq., permission.

MUSIC EDUCATION

72. MUSIC FUNDAMENTALS (2) Malone, Sears, Thackrey

A course for elementary teachers only involving theory, ear training, tone production, and sight singing of unison and part songs. 3 hrs. a week.

261. STRING TECHNIQUES AND MATERIALS (2) Conkling

5 hrs. a week.

262. MUSIC FOR THE CLASSROOM TEACHER

(2) Malone, Morley, Stephenson

Open to elementary classroom teachers only. Prereq., 72.

263. WIND AND PERCUSSION TECHNIQUES AND MATERIALS (2) Staff

Maximum credit in the course, 6 hrs. 5 labs.

265. VOCAL TECHNIQUES AND MATERIALS (2) Stephenson

266. TEACHING OF MUSIC IN THE ELEMENTARY GRADES

(3 to 6) Blaney, Malone

Music materials and methods for elementary music majors only. Prereq., 106.

267. SUPERVISION AND ADMINISTRATION OF MUSIC IN THE PUBLIC SCHOOLS

(3) Stephenson

(For music majors only.) Prereq., with Ed. 229.

268. GENERAL MUSIC FOR ADOLESCENTS AND ADULTS (3) Malone

(For music majors only.) Prereq., 106.

269. SOCIAL AND RECREATIONAL INSTRUMENTS AND MATERIALS

Prereq., 106 and Piano.

(2) Sears

276. MUSIC WORKSHOP

(1 to 3) Staff

Maximum credit in the course, 4 hrs.

a. Elementary Music Workshop (Summer only).

b. Elementary Music Workshop (Extension only).

376 a, b, c, d. MUSIC WORKSHOP

(1 to 4) Staff

Maximum credit in course, 6 hrs.

a. Music Clinic-Workshop (Summer only).

b. Opera Theatre.

c. Elementary Music Workshop (Summer only).

d. Elementary Music Workshop (Extension only).

470. CONTEMPORARY TRENDS IN MUSIC EDUCATION

(2) Stephenson

Prereq., permission.

471. PROBLEMS IN THE SUPERVISION OF VOCAL MUSIC

(2) Morley, Stephenson

2 lec., lab as required. Prereq., 265, 266, 267, 2 hrs. observation, 4 hrs. student teaching.

472. PROBLEMS IN THE SUPERVISION OF INSTRUMENTAL MUSIC

(3) Minelli

2 lec., lab as required. Prereq., 261, 263, 2 hrs. observation, 4 hrs. student teaching.

473. EXPERIMENTAL STUDIES IN MUSIC

(3) Sears

Important psychological investigations bearing upon musical composition, performance, and appreciation. Prereq., permission.

495. THESIS

(1 to 5) Staff

Prereq., permission.

MUSIC THERAPY

274. CLINICAL EXPERIENCE I

(1) Sears and Staff

Three months as a full-time general aide in a psychiatric hospital to be completed after the sophomore year and before the beginning of the senior year. Prereq., junior standing in Music Therapy. Credit, without grade, upon satisfactory completion.

374. FOUNDATIONS OF MUSIC

(2 to 4) Sears

A lecture-laboratory course applying pertinent findings from the fields of physics, acoustics, electronics, physiology, psychology, and sociology to music education and music therapy. 2 lec., 3 lab, and research problem. Prereq., 6 hrs. psychology, general biology, introductory physics, permission.

377. BACKGROUND OF MUSIC THERAPY

(2) Sears

A study of the theoretical and experimental bases for the influence of music on behavior. Prereq., 374 or concurrently, permission.

379. MUSIC THERAPY

(2) Sears

A study of the uses of music in therapy with emphasis on past and current methods and applications, organization and structure of music therapy programs, and functions of the music therapist in clinical situations. Prereq., 377, permission.

380. CLINICAL EXPERIENCE II

(2) Sears and Staff

Six months as a full-time music therapy intern in an approved psychiatric hospital, served after completion of the senior year. Prereq., completion of senior year in Music Therapy. Credit, without grade, upon satisfactory completion.

PHILOSOPHY

Professor Organ (chairman)

Associate Professor Murphree

Assistant Professors Wieman, Grean, Hagensick

Instructors Sheridan, Cua

The major requirement for the A.B. degree consists of a minimum of 24 hours, including 110, 221, 222, and at least three courses in the 300 group.

1. PRINCIPLES OF REASONING

(3) Staff

The use of evidence in establishing reliable conclusions. Not open to juniors and seniors. (Each sem.)

2. MORAL PHILOSOPHIES

(3) Cua, Grean, Murphree

Types of ethical theory, the bases of moral decision, and the nature of values. Not open to juniors and seniors. (Each sem.)

101. INTRODUCTION TO RELIGION

(2) Hood

Types of religious beliefs and practices. (2nd sem., yearly.)

103. OLD TESTAMENT THOUGHT

(3) Grean, Hood

The background and development of the Old Testament; its philosophical, moral, and religious significance. (1st sem., yearly.)

104. NEW TESTAMENT THOUGHT

(3) Grean, Hood

The background and development of the New Testament; the philosophical, moral, and religious significance of the beliefs of Jesus, Paul, and the early Church. (2nd sem., yearly.)

107. WORLD'S GREAT RELIGIONS

(3) Organ

Origins, literature, beliefs, practices, and values of the living religions of the world. (Each sem.)

110. INTRODUCTION TO PHILOSOPHY

(3) Staff

An analysis of typical philosophical problems arising in the study of nature, society, religion, and art for the purpose of developing a thoughtful and consistent intellectual perspective. (Each sem.)

117. SOCIAL PHILOSOPHY

(2) Murphree

Basic types of social and political philosophies, classical and modern. (1st sem., yearly.)

201. ETHICS

(3) Wieman

A comparison of theories of the right and the good which enter into contemporary thought. (Each sem.)

209. LOGIC

(3) Hagensick

(Each sem.)

212. AMERICAN PHILOSOPHY

(2) Murphree

Begins with transcendentalism and includes pragmatism, naturalism, and idealism. Prereq., 110. (2nd sem., yearly.)

221. HISTORY OF WESTERN PHILOSOPHY: ANCIENT AND MEDIEVAL

(3) Organ

Significant ideas of representative philosophers from 600 B.C. to 1600 A.D. (1st sem., yearly.)

222. HISTORY OF WESTERN PHILOSOPHY: MODERN

(3) Sheridan

Significant ideas of representative philosophers since 1600. (2nd sem., yearly.)

302. AESTHETICS

(3) Grean

Selected theories of the nature of art and aesthetic experience and the relation of art to other aspects of human culture. Prereq., 6 hrs., or 3 hrs. and 12 hrs. humanities. (2nd sem., yearly.)

304. CONTEMPORARY SOCIAL PHILOSOPHY

(2) Murphree

Prereq., 6 hrs., or 3 hrs. and 6 hrs. of a social science. (2nd sem., 1961-62.)

305. THEORY OF KNOWLEDGE

(3) Hagensick

A critical examination of various views of what knowledge is and how it is attained. Prereq., 6 hrs. (1st sem., 1961-62.)

306. PHILOSOPHY OF SCIENCE (3) Hagensick
Prereq., 6 hrs., or 3 hrs. and 12 hrs. natural science. (2nd sem., yearly.)
308. EASTERN PHILOSOPHY (2) Organ
Selected philosophers and systems of philosophy of India and China. Prereq., 6 hrs., including 107. (2nd sem., 1960-61.)
310. PRAGMATISM (2) Murphree
Peirce, James, Dewey, and Schiller. Prereq., 6 hrs. (2nd sem., 1960-61.)
311. METAPHYSICS (2) Wieman
Basic assumptions underlying different conceptions of the world with special attention to materialism, formism, idealism, and contextualism. Prereq., 6 hrs. (1st sem., 1960-61.)
315. PHILOSOPHY OF RELIGION (3) Grean
Representative theories about the nature of religion, God, the problem of evil, immortality, and the relation of religion and culture. Prereq., 6 hrs., including either 101, 103, 104, or 107. (1st sem., yearly.)
321. PLATO (2) Wieman
Prereq., 6 hrs. (1st sem., 1961-62.)
322. ARISTOTLE (2) Organ
Prereq., 6 hrs. (2nd sem., 1961-62.)
325. BRITISH EMPIRICISM (3) Cua
Locke, Berkeley, and Hume. Prereq., 6 hrs., including 110. (1st sem., 1961-62.)
331. CONTINENTAL IDEALISM (2) Sheridan
Kant, Hegel, and Cassirer. Prereq., 6 hrs. (1st sem., 1960-61.)
333. EXISTENTIALISM (2) Sheridan
Sartre, Marcel, and Heidegger. Prereq., 6 hrs. (1st sem., 1961-62.)
341. SYMBOLIC LOGIC (2) Hagensick
Prereq., 6 hrs. (1st sem., 1960-61.)
391. SEMINAR IN PHILOSOPHY (1 to 3) Staff
Selected problems. Maximum credit in course, 6 hrs. Prereq., 15 hrs.
495. THESIS (1 to 4) Staff
Prereq., permission.

PHOTOGRAPHY

Lecturers White, Truxell, Allen

A student may not register for more than eight hours in photography during a single semester without special permission.

- 77-78. BASIC PHOTOGRAPHY (3-3) Allen
1 lec., 4 lab.
133. BASIC NEWS PHOTOGRAPHY (3) Truxell
Introduction to photographic technique and practice and study of picture content for news reporting. (Not open to photog. majors.) 1 lec., 4 lab.

134. NEWS PHOTOGRAPHY

(3) Truxell

Study and practice in photography for news and feature reporting. 1 lec., 4 lab. Prereq., 78 or 133, permission.

143-144. PHOTOGRAPHIC PROCESSES

(3-3) White

History of photographic processes, photographic optics, photochemistry, sensitometry, photographic printing processes, and mechanical reproduction methods. 3 lec. Prereq., 78.

145-146. WORKSHOP IN PHOTOGRAPHY

(3-3) Allen

Individual practice in basic problems of photographic design and technique. Maximum credit in course, 6 hrs. 6 lab. Prereq., 78 or permission.

277-278. PORTRAITURE

(3-3) Truxell

Formal and informal portraiture as well as problems connected with the photography of people indoors and out-of-doors, individually or in groups, including an approach to fashion. 1 lec., 4 lab. Prereq., 146, permission.

379-380. COMMERCIAL AND ILLUSTRATIVE PHOTOGRAPHY

(3-3) White

Studio and location work in commercial, advertising, industrial, and architectural photography. Introduction to problems of studio operation and free-lance photography. 1 lec., 4 lab. Prereq., 278 or permission.

381. PROBLEMS IN PHOTOGRAPHY

(3) Staff

Individual study and practice in a specialized phase of photography under instructor's supervision. Maximum credit in any one phase or combination of phases, 12 hrs. 6 lab.

- a. Individual selection of approved problems in photographic design, technique, or practice. 6 lab. Prereq., 277.
- b. Picture stories for publication and magazine free-lance photography. 1 lec., 4 lab. Prereq., 134 or 146.
- c. 16 mm. motion picture production. 6 lab. Prereq., 277.
- d. Special problems in color photography. 6 lab. Prereq., 391.

391-392. COLOR PHOTOGRAPHY

(5-5) White

Theory of color photography, practice with color transparency materials, direct separations, separations from transparencies, masking, and color printing. 1 lec., 8 lab. Prereq., 144, 278, permission.

481. RESEARCH IN PHOTOGRAPHY

(1 to 4) Staff

Maximum credit in course, 8 hrs. Prereq., 20 hrs., including 381, permission.

495. THESIS

(1 to 6) Staff

Prereq., permission.

PHYSICAL EDUCATION AND ATHLETICS

Associate Professors Hatcher, Trautwein, LaTourrette,
Trepp, Nessley, Rhoads, Widdoes, Miller, Mason
Assistant Professors Blosser, Wren, Snyder, Richey,
Heffelfinger, Schleicher, Bartels, Hess
Instructors Gillespie, Huntsman, O'Neal, McComb, Hindman,
Kappes, Gilders, Hart, Moldenhauer, Zubaty

WIDDOES, Director of the Division; TRAUTWEIN, associate director and business manager of intercollegiate athletics; NESSLEY, assistant director in charge of physical education program; MASON,

chairman, graduate program, teacher education; HATCHER, health education; TREPP, chairman, major curriculum for men; LA TOURRETTE, recreation; MILLER, chairman, women's program; RHOADS, intramural athletics, men; GILLESPIE, intramural sports, women; HUNTSMAN, head track coach, freshman football; BLOSSER, head golf coach, freshman basketball; WREN, head baseball coach, assistant in freshman football; HESS, head football coach; HEFFELFINGER, football; RICHEY, football; SNYDER, head basketball coach; BARTELS, swimming and tennis coach, men; GILDERS, aquatics, men; MOLDENHAUER, aquatics, women; SCHLEICHER, teacher education, wrestling coach; ZUBATY, modern dance; O'NEAL, supervising critic, Putnam School; McCOMB, ice hockey and soccer coach, ice skating; HINDMAN, football; KAPPES, football; HART, athletic trainer.

SERVICE COURSES

The physical education program is designed for the diversified interests and abilities of men and women in the University. Students may elect freely from those courses which appeal to them but should avoid repetition of one sport or activity for the fulfillment of their physical education requirement.

The asterisk (*) indicates those courses which may be repeated once. For women this may be done by permission. No student may use more than two credit hours in the same sport or activity toward a degree requirement.

For a detailed statement of the university requirement in physical education refer to the Physical Education and Athletics section of the catalog.

MEN

1. 2. SEASONAL SPORTS (1, 1) Blosser and Staff
Activities adaptable to team and league play.
11. VOLLEYBALL, HANDBALL, BADMINTON (1) Nessley
Students may rotate activities during the semester.
19. GYMNASTICS* (1) Staff
Tumbling, stunts, apparatus, pyramids, and trampoline.
21. WRESTLING* (1) Schleicher
For those who wish to learn wrestling or train for the varsity squad.
23. TRACK AND CROSS COUNTRY* (1) Huntsman
Coaching and practice in track and field events and training for varsity squads.
24. SOCCER* (1) McComb and Staff
Varsity and freshman squads.
25. FOOTBALL* (1) Hess, Huntsman, Staff
Prereq., permission.
27. BASEBALL* (1) Wren
Prereq., permission.
29. BASKETBALL* (1) Snyder
31. SWIMMING* (1) Bartels and Staff
Freshman and Varsity Squads. Prereq., permission.
33. HANDBALL (1) Staff

39. DIVING FUNDAMENTALS (1) Staff
Springboard skills and the basic dives from each of the five diving groups.

51. ICE HOCKEY* (1) McComb
Prereq., permission.

52. LACROSSE (1) McComb and Staff

MEN - WOMEN

3. BEGINNING SWIMMING (1) Bartels, Gilders, Moldenhauer
For students who are unable to swim.

4. INTERMEDIATE SWIMMING* (1) Bartels, Gilders, Moldenhauer
For students who have passed a beginner's swimming test or can swim; instruction and practice in the basic strokes, plain and surface diving. Prereq., 3 or equivalent.

5. ADVANCED SWIMMING (1) Bartels, Gilders, Moldenhauer
For those who have passed the Red Cross Swimmer's Test or its equivalent. The analysis and skills of diving, the recognized strokes and their variations, and fundamentals of competitive swimming. Prereq., 4 or permission.

7. BEGINNING MODERN DANCE (1) Zubaty
Fundamentals of movement technique in relation to time, space and dynamics. (Not ballroom dancing.)

8. INTERMEDIATE MODERN DANCE* (1) Zubaty
Studies in technique and dance forms. Prereq., 7 or permission.

9, 10. ADAPTED ACTIVITIES* (1, 1) Miller, Trepp
Students whose physical activities should be restricted are assigned to those activities adapted to their special needs. Prereq., medical permission.

15, 16. FOLK AND NATIONAL DANCING (1, 1) Hatcher, LaTourrette
American square and European dances. 16 is a continuation of 15.

17. BEGINNING TENNIS (1) Heffelfinger, Miller
Skills, court strategy, and rules.

18. INTERMEDIATE TENNIS* (1) Heffelfinger, Miller
A continuation of 17. Prereq., 17 or experience.

37. FENCING (1) Nessley
Instruction in foil fencing.

38. ADVANCED FENCING (1) Nessley
A continuation of 37.

41. BEGINNING GOLF (1) Blosser, Gillespie, Staff

42. INTERMEDIATE GOLF* (1) Blosser, Staff
Prereq., 41 or playing experience.

45. BEGINNING BOWLING (1) Richey, Schleicher
Pin fee \$10.50.

47. RIDING (1) Staff
At McAfee Farm. Fee \$20.00.

49. BEGINNING SKATING (1) McComb, Staff
50. FIGURE SKATING* (1) McComb, Staff
Instruction in compulsory figures and free skating.
- 115, 116. ADVANCED MODERN DANCE* (1, 1) Zubaty
The more complex coordinations and movement studies. Experimentation in form and composition. Prereq., permission.
118. LIFE SAVING AND WATER SAFETY (1) Bartels, Gilders, Moldenhauer
Techniques included in the test for American Red Cross Senior Life Saving certificate. Prereq., 5 or permission.
120. INSTRUCTOR'S LIFE SAVING AND WATER SAFETY (1) Bartels, Gilders, Moldenhauer
For those who have been certified as American Red Cross Senior Life Savers. Prereq., 118.

WOMEN

Courses numbered 1 through 138 may be used to satisfy the physical education requirement.

- 1, 2. SPORTS (1, 1) Staff
Students choose from field hockey, soccer, basketball, volleyball, softball, archery, and badminton; may be repeated if a different sport is taken.
6. BEGINNING TAP DANCING (1) Staff
112. SYNCHRONIZED SWIMMING (1) Moldenhauer
Fundamental rhythmic patterns and stunts. Prereq., 5, or permission.
113. HIKING (1) LaTourrette
114. CAMP CRAFT (1) LaTourrette
An activity course giving experience in firebuilding, outdoor cooking, and lashing temporary camp equipment. One overnight hike is required.
131. MASS GAMES (1) GILLESPIE
Games for primary and intermediate grades, program planning, and game leadership. For physical education majors or minors, students in elementary education and recreational leaders, or by permission.
- 137, 138. CHOREOGRAPHY (1 or 2, 1 or 2) Zubaty
Experimentation in dance composition. Prereq., permission.

PROFESSIONAL COURSES FOR THE MAJOR OR MINOR

Refer to curricula in Health Education, Physical Education, and Recreation in the Physical Education and Athletics section of the catalog.

MEN

- 65, 66. PROGRAM SKILLS (2, 2) Mason, Staff
- 65, Theory and practice of touch football, soccer, speedball, tumbling, stunts and apparatus, swimming proficiency tests, and officiating practice;
- 66, Swimming, marching and conditioning exercises, volleyball, tennis, softball, secondary school games, and officiating practice.

121. PROGRAM SKILLS (2) Mason, Staff
Rhythmics, archery, handball, badminton, horseshoes, table tennis; relays and mass games for the elementary school program. Prereq., 65 or 66.
122. PROGRAM SKILLS (1) Bartels, Blosser, Nessley
Wrestling, fencing, golf, outdoor education and methods in acuqatics. Prereq., 65 or 66.
139. ATHLETIC OFFICIATING (2) Mason, Rhoads
Rules, mechanics, and procedures for the officiating of football and basketball; State certification upon successful completion.
181. INTRAMURAL SPORTS (2) Rhoads
Methods of organizing and administering a program of intramural sports for all age levels.
267. ATHLETIC COACHING (2 to 4) Snyder, Wren
Basketball and baseball. Theory and practice. Prereq., junior or senior rank.
268. ATHLETIC COACHING (2 to 4) Hess, Huntsman
Football and track. Prereq., junior or senior rank.

MEN - WOMEN

102. PERSONAL AND COMMUNITY HEALTH (3) Hatcher, Trepp
Hygienic practices and an appreciation of the means whereby the health of the individual and of the group may be maintained.
127. FIRST AID (2) LaTourrette
Principles and practices of American Red Cross First Aid. The Standard Certificate is granted if requirements are met.
128. PHYSICAL THERAPY (2) Schleicher
Theory and practice of physical therapy and the treatment of athletic injuries. Prereq., Zool. 133-134.
129. INSTRUCTORS FIRST AID (2) LaTourrette
As prescribed and certified by the American Red Cross. Prereq., current First Aid Certificate.
- 133-134. ANATOMY, KINESIOLOGY AND PHYSIOLOGY (4-4) Trepp, Vallowe
(Same as Zool. 133-134). For course description see Zoology.
135. PROGRAM TECHNIQUES (1) Miller, Trepp, Staff
Experiences in the organization, teaching, and management of health education, physical education, and recreation classes. Students are supervised by staff members.
150. RECREATION (3) LaTourrette
A review of the theory of play, recreation, and group work. Students organize parties and square dances and plan programs for community and institutional groups. Handicraft is included.
153. NATURE AND FUNCTION OF PLAY (2) Rhoads
The historical background, theory, need, and administration of play, emphasizing play programs for schools, recreation centers, camps, and clubs.

233. THEORY OF ADAPTED ACTIVITIES

(2) Miller, Trepp

The organization of programs adapted to the needs of physically handicapped individuals. Prereq., Zool. 133.

269. TEACHING OF HEALTH

(3) Trepp

Instruction, principles, and curricula used in presenting health information to pupils in the elementary and secondary schools. Prereq., 102.

270. TEACHING OF PHYSICAL EDUCATION

(1) O'Neal

Objectives, organization, and program suggestions for elementary school.

271. TEACHING OF SWIMMING

(2) Bartels

Methods and practice. Prereq., 118.

304. HISTORY AND PRINCIPLES OF PHYSICAL EDUCATION

(3) Hatcher, Trepp

Physical education systems and their influences from the time of the Greeks; principles underlying physical education in the modern program of education. Prereq., Zool. 133-134 or equivalent.

306. ORGANIZATION AND ADMINISTRATION OF PHYSICAL EDUCATION

(2) Miller, Nessley

Methods of organizing and administering health and physical education, recreation, and athletics in schools and colleges. Prereq., junior or senior rank.

309. TESTS AND MEASUREMENTS

(3) Miller, Nessley

Methods of evaluation in health education, physical education, and athletics; practice in handling testing data by elementary statistical methods. Prereq., 10 hrs. and senior or graduate rank.

349. COMMUNITY RECREATION

(3) Mason, Nessley

History of the play movement, programs and program building, administration of playgrounds, community centers, and recreational activities. Prereq., 10 hrs. and senior or graduate rank.

352. PHYSICAL DIAGNOSIS

(3) Schmidt and Staff

Deficiencies and defects characteristic of children that handicap normal physical, mental, and social development and the techniques in conducting health examinations and clinical service. Prereq., 15 hrs. and senior or graduate rank.

353. CLINICAL OBSERVATION AND PRACTICE IN PHYSICAL
MEDICINE AND REHABILITATION

(4) V. A. Hospital Staff

A concentrated summer school field course at Veterans Administration Hospital, Chillicothe, Ohio. Instruction by hospital corrective therapy staff. Open to senior majors or graduate students in physical education. Prereq., Zool. 133-134 or equivalent.

395. SCHOOL HEALTH PROBLEMS

(3) Trepp

Principles, problems, organization, and administration of school health programs including school and community relationships. Prereq., 10 hrs., senior or graduate rank.

396. PROBLEMS OF INTERSCHOOL ATHLETICS

(3) Mason, Rhoads, Widdoes

Problems pertaining to interschool athletic competition at all age levels. Prereq., 10 hrs., senior or graduate rank.

400. PROBLEMS IN HEALTH AND PHYSICAL EDUCATION (1 or 2) Staff
Guided independent study of selected problems.

491. SEMINAR IN PHYSICAL EDUCATION AND ATHLETICS
(3) Mason, Miller, Nessley

Research and investigation in health education, physical education, recreation, or athletics. Topics and problems suitable for thesis writing, methods of research, writing practice, and critical analysis of outlines for research study.

492. FOUNDATIONS OF HEALTH EDUCATION AND
PHYSICAL EDUCATION (3) Miller, Staff

A summation of the principles from biology, psychology, and sociology underlying the programming, instruction, and administration of health education and physical education. Prereq., permission.

495. THESIS (1 to 6) Staff
Prereq., permission.

Any of the following courses may be elected in meeting the requirements for the graduate major in physical education:

Zool. 305, Principles of Physiology; Psych. 310, Behavior Pathology; Psych. 315, Social; Ed. 381, Educational Statistics; Ed. 382, Advanced Educational Statistics.

WOMEN

121, 122. PROGRAM SKILLS (2, 2) LaTourrette, Miller
Theory and practice of individual sports, folk dancing, gymnastics, tumbling, and stunts.

139. ATHLETIC OFFICIATING (1) Hatcher, LaTourrette
Theory and practice of officiating field hockey, soccer, and basketball.

140. ATHLETIC OFFICIATING (1) LaTourrette
Theory and practice of officiating volleyball, softball, and track.

142. CAMP LEADERSHIP (2) LaTourrette
The responsibilities of counselors and methods of program planning. Practical leadership experiences.

272. TEACHING METHODS (2) Hatcher, LaTourrette
Field hockey, soccer, and basketball. Prereq., experience in the sports.

273. TEACHING METHODS (2) LaTourrette
Volleyball, softball, track, and field activities. Prereq., experience in the sports.

274. TEACHING OF RHYTHMIC ACTIVITIES (1) Hatcher
Folk dancing. Prereq., 15 or 122.

275. TEACHING OF RHYTHMIC ACTIVITIES (1) Zubaty
Ballroom and modern dancing. Prereq., 8.

PHYSICAL SCIENCE—See General Studies

PHYSICS

Professors Edwards, Randall (chairman)
Associate Professors Pierce, T. Smith
Assistant Professors Gallaher, Stumpf, Shipman,
Johnson, Otter, Malik

The requirement for the A. B. degree with a major in physics is a minimum of 24 semester hours including Physics 111, 115, and at least 6 hours in physics courses numbered above 300 and Math. 102. This curriculum is recommended for secondary school science teachers.

The requirement for the B. S. degree with a major in physics is a minimum of 36 semester hours. This must include the physics courses listed in the curriculum in the College of Arts and Sciences section of the catalog, as well as the chemistry and mathematics courses included in the program. Students in this curriculum are eligible for membership in the Ohio University Student Chapter of the American Institute of Physics. Students preparing to become physicists in industrial, atomic energy, space science, or government laboratories, or students who plan to enter graduate study in physics should register for additional advanced laboratory courses while completing the B. S. degree.

Students who wish to enter graduate study in physics should acquire a reading knowledge of German, and French or Russian. Prospective graduate students are urged to plan their program as early as possible. Details are given in the Graduate College Bulletin.

5, 6. INTRODUCTION TO PHYSICS (4, 4) Edwards, Shipman

Fundamentals of mechanics, electricity, magnetism, heat, light, sound, and atomic structure. For pre-professional students and physics majors. 3 lec., 2 lab. (Yearly.)

111. PRINCIPLES OF CONTEMPORARY PHYSICS (3) Johnson

Electromagnetic fields, kinetic theory, solid state physics, relativity, fundamental particles, atomic, and nuclear physics. 3 lec. Prereq., 5, 6, Math. 101. (1st sem., yearly.)

113. GENERAL PHYSICS (4) Staff

For students of chemistry, engineering and mathematics. Lectures with demonstrations, recitations, and lab. Mechanics, electricity, and magnetism. 3 lec., 2 lab. Prereq., Math. 101 or with 101. (Each sem.)

114. GENERAL PHYSICS (4) Staff

Same general description as 113. Topics: fluids, heat, wave motion, sound, and light. 3 lec., 2 lab. Prereq., 113; Math. 102 or with 102. (Each sem.)

115. GENERAL PHYSICS (3) Staff

Same general description as 113 except no lab. Modern Physics. Required for all physics majors. Prereq., 111 or 114; Math. 102. (Each sem.)

119-120. INTERMEDIATE LABORATORY (1-1) Staff

Experiments in contemporary physics. Prereq., 5, 6. (Yearly.)

201-202. MECHANICS (3-3) Stumpf

Fundamentals of physical mechanics and wave motion. Prereq., 115, Math. 316 or with 315-316. (Yearly.)

219-220. ELECTRICITY AND MAGNETISM (3-3) Johnson

Physical fundamentals of circuits, currents, and fields. Prereq., 115, Math. 316 or with 315-316. (Yearly.)

226. SOUND (2) Pierce
Physics of production, transmission, and detection of sound. Prereq., 5 or 113, Math. 16. (2nd sem., 1961-62.)
268. TEACHING OF PHYSICAL SCIENCE (2) Pierce
For secondary school teachers. Prereq., 8 hrs. in physics or chemistry. (2nd sem., 1960-61.)
305. LIGHT (3) Gallaher
Physical nature of light; geometric and physical optics. Prereq., 220. (2nd sem., 1960-61.)
308. X-RAYS (2) Edwards
Physics of X-rays and crystallography; applications in chemistry, medicine, and physics. Prereq., 115. (1st sem., 1961-62.)
310. HEAT AND THERMODYNAMICS (3) Stumpf
Fundamentals of heat and energy transformations. Prereq., 115, Math. 316 or with 316. (2nd sem., 1961-62.)
314. MODERN SPECTROSCOPY (3) Randall
Atomic and molecular spectra at all frequencies and their interactions with matter; quantitative analysis. Prereq., 115. (1st sem., yearly.)
- 327 through 332. ADVANCED PHYSICS LABORATORIES (2 each) Staff
Fundamental physical principles and interpretation of data are emphasized through basic and advanced techniques and modern instrumentation in six fields of physics for the chemist, engineer, and physicist.
327. OPTICS—Laboratory. Prereq., 115. (1st sem., 1961-62.)
328. SPECTROSCOPY—Laboratory. Prereq., 115. (2nd sem., yearly.)
329. ELECTRICAL MEASUREMENTS—Laboratory. Prereq., 115. (1st sem., yearly.)
330. ELECTRONIC CIRCUITS—Laboratory. Prereq., 115. (2nd sem., yearly.)
331. X-RAYS—Laboratory. Prereq., 115. (1st sem., yearly.)
332. NUCLEAR PHYSICS—Laboratory. Prereq., 115. (2nd sem., yearly.)
342. NEUTRON PHYSICS LABORATORY (3) Randall
Properties of the neutron and studies of the uranium reactor. Prereq., 220. (2nd sem., yearly.)
- 349-350. ATOMIC AND NUCLEAR PHYSICS (3-3) Edwards
Fundamental physical laws of atomic and nuclear structure. Prereq., 115, Math. 316. (Yearly.)
352. INTRODUCTION TO QUANTUM MECHANICS (3) Malik
Introduction to basic universal physical laws in which energy and momentum are quantized. Prereq., 202. (2nd sem., 1961-62.)
360. SOLID STATE PHYSICS (3) Otter
Fundamental physical properties of the solid state of matter. Prereq., 349. (2nd sem., yearly.)
361. SPECIAL PROBLEMS (1 to 3) Staff
Supervised research problems of limited scope in experimental and theoretical physics. Maximum credit in course, 8 hrs. Prereq., 15 hrs. (Yearly.)

365. NUCLEAR REACTOR THEORY (3) Randall
Nuclear physics and neutron theory with applications to reactor design and operation. Prereq., 115. (1st sem., yearly.)
- 405-406. CLASSICAL THEORETICAL PHYSICS (3-3) Johnson
Selected topics to provide insight and basic skills in problems of classical and statistical mechanics, thermodynamics, and electromagnetic theory. Prereq., 202, 220. (Yearly.)
- 407-408. THEORETICAL MODERN PHYSICS (3-3) Otter
Selected topics to provide insight and basic skills in problems of the new frontiers of physics. Prereq., 202, 220. (Yearly.)
410. HIGH ENERGY PARTICLES (3) Randall
Theoretical and experimental methods of the problems of fundamental particles of physics at high energies. Prereq., 407. (2nd sem., 1961-62.)
- 419-420. QUANTUM MECHANICS (3-3) Gallaher
Matrix and wave mechanics methods for problems in the structure of matter. Prereq., 352, 406, 408. (Yearly)
425. THEORETICAL MECHANICS (3) Otter
Advanced treatment of kinematics, dynamics, energy, and momentum. Prereq., 406. (1st sem., yearly.)
426. ELECTROMAGNETIC THEORY (3) Smith
Advanced treatment of electric and magnetic fields. Prereq., 406. (Yearly.)
450. NUCLEAR THEORY (3) Malik
Fundamental facts and theories of the structure of nuclei and their interactions. Prereq., 406, 408. (Yearly.)
461. STATISTICAL MECHANICS AND THERMODYNAMICS (3) Smith
Application of general theories to selected topics. Prereq., 419. (2nd sem., 1960-61.)
465. ADVANCED QUANTUM MECHANICS (3) Johnson
Interactions between radiation and matter. Prereq., 420. (1st sem., 1961-62.)
470. QUANTUM FIELD THEORY (3) Johnson
Electromagnetic, nuclear, and gravitational fields from quantum viewpoint. Prereq., 465. (2nd sem., 1961-62.)
475. ADVANCED NUCLEAR THEORY (3) Gallaher
Theories of structure of nuclei and their interactions. Prereq., 420, 425.
481. RESEARCH (1 to 3) Staff
Maximum credit in course, 6 hrs. Prereq., 24 hrs. (Yearly.)
- 489, 490. COLLOQUIUM (0, 0) Gallaher
Selected topics. Required of all physics graduate students each semester in residence. Prereq., 15 hrs. (Yearly.)
- 491, 492. SEMINAR (1, 1) Staff
Intensive study of current research by special groups. Prereq., 15 hrs. (Yearly.)
495. THESIS OR DISSERTATION (As recommended by department) Staff
Prereq., permission. (Yearly.)

PRINTING—See Industrial Arts

PSYCHOLOGY Professors A. C. Anderson, Patrick, Paulsen, Uhrbrock
 Associate Professors Pullen, Klare (chairman), Russell
 Assistant Professors Nygaard, Bradshaw, Games, Johns,
 Koons, Koenigsberg
 Instructor Bowling

The major requirement for the A.B. degree is 26 semester hours including 1 or 101, 2, 105, 190, 209, 299, and 9 hours in courses numbered 300 to 399. Total hours in psychology courses may not exceed 34. Undergraduate majors, especially those planning to pursue graduate work in psychology, are advised to prepare themselves in allied fields appropriate to their interests. Especially recommended are language, preferably French, German or Russian, biological science, mathematics, philosophy, and the social sciences, including economics.

The facilities of the University Testing and Counseling Center and of the Psychological Service Center provide opportunities for the training of graduate students in psychology, as well as services to University students, staff, and faculty.

1. GENERAL PSYCHOLOGY (3) Staff

A survey of the most significant facts and principles of behavior. Not open to juniors and seniors. (Each sem.)

2. PRINCIPLES OF PSYCHOLOGY (3) Staff

An extension of 1, with emphasis on learning, motivation, sensory processes, etc. Prereq., 1 or 101. Not open to juniors and seniors. (Each sem.)

5. EDUCATIONAL PSYCHOLOGY (3) Staff

A course covering psychological facts and principles of concern to those planning to teach. Prereq., 1 or 101. Not open to juniors and seniors. (Each sem.)

9. IMPROVEMENT OF READING AND STUDY METHODS (1) Bradshaw

Improvement of study and reading habits. Credit and points not counted toward a degree. (Each sem.)

101. GENERAL PSYCHOLOGY (3) Staff

A survey of the most significant facts and principles of behavior. An intensive course not open to freshmen and to students having had 1. (Each sem.)

103. CHILD PSYCHOLOGY (3) Koenigsberg

A study of behavior in infancy and childhood. Prereq., 1 or 101. (Each sem.)

105. ELEMENTARY STATISTICS IN THE BEHAVIORAL SCIENCES

(3) Games and others

Measures of central tendency, variability, correlation, and the simplest tests of hypotheses. Prereq., Math. 3 with minimum grade of C, or 9, or 15. (Each sem.)

110. PSYCHOLOGY OF ADJUSTMENT (3) Bradshaw, Koons, Russell

An introductory study of motivational and inter-personal relations. Prereq., 1 or 101. (1st sem., yearly.)

113. PSYCHOLOGY OF ADOLESCENCE (2) Bradshaw, Koenigsberg

A study of the physical growth, glandular changes, and emotions of adolescents. Prereq., 1 or 101. (Each sem.)

135. PSYCHOLOGY OF ADVERTISING AND SELLING (3) Anderson

Applications of psychology of attention, human motives, learning and remembering, imagery, and individual likenesses and differences to advertising and selling. Prereq., 1 or 101. (Each sem.)

190. INTRODUCTION TO PSYCHOLOGICAL TESTS (3) Games, Klare

The nature and purpose of psychological measurements. Introduction to tests of intelligence, achievement, personality, and interest. 2 lec., 2 lab. Prereq., 1 or 101, 105 or equivalent. (2nd sem., yearly.)

204. PSYCHOLOGY OF EXCEPTIONAL CHILDREN

(2) Bradshaw, Koenigsberg

The growth and development of nontypical children. Prereq., 6 hrs. (Each sem.)

209. EXPERIMENTAL PSYCHOLOGY

(3) Johns, Nygaard

Training in the scientific methods and techniques of modern experimental psychology with individual reports of experiments. 2 lec., 4 lab. Prereq., 1 or 101 and 105 or equivalent. (Each sem.)

210. LABORATORY PROBLEMS IN GENERAL AND APPLIED PSYCHOLOGY

(2) Johns, Nygaard

Essentially an extension and application of techniques presented in Experimental Psychology to general and applied areas. The student may be required to design and carry out a small supervised project of his own choosing. 1 lec., 2 lab. Prereq., 209. (2nd sem., yearly.)

233. INDUSTRIAL PSYCHOLOGY

(3) Klare, Uhrbrock

The application of psychology to business and industry, including the evaluation of tests and other selective devices for employee selection and placement. Prereq., 1 or 101, 105 or equivalent. (1st sem., yearly.)

299. SENIOR SEMINAR

(2) Staff

Discussion of contemporary problems and systematic issues in psychology. Prereq., senior standing in psychology. Maximum credit in course, 2 hrs. (Each sem.)

307. COMPARATIVE AND GENETIC PSYCHOLOGY (3) Johns, Nygaard

Behavior of lower and higher organisms leading up to man is considered. 2 lec., 3 lab. Prereq., 209 and 3 hrs. zoology. (1st sem., yearly.)

309. MOTIVATION AND EMOTIONS

(3) Patrick

The dynamics of animals and human behavior; a study of drives, desires, incentives; a study of emotion in relation to motives. Prereq., 9 hrs. (2nd sem., yearly.)

310. BEHAVIOR PATHOLOGY

(3) Patrick, Pullen

An empirical approach to the dynamics of behavior disorders. The integration and application of motivational, emotional, perceptual, and learning principles to maladjustments, including psychoneurosis. Prereq., 9 hrs. (1st sem., yearly.)

312. ABNORMAL PSYCHOLOGY

(3) Staff

Considers man's mental deviations from the normal; the theory, application, and limitations of psychoanalysis; methods of studying abnormal mental processes, especially psychoses. Clinics at hospitals. 2 lec., 1 lab. Prereq., 9 hrs. or 6 hrs. and 6 hrs. zoology. (2nd sem., yearly.)

315. SOCIAL PSYCHOLOGY

(3) Paulsen and others

A study of the behavior of man as influenced by group membership, with emphasis on the individual's interaction as a basis of change of motives, attitudes, and personality. Prereq., 9 hrs. (2nd sem., yearly.)

316. PSYCHOLOGY OF INDIVIDUAL DIFFERENCES

(2) Bradshaw, Koenigsberg

The extent and the nature of individual differences, and the influence thereupon of such factors as heredity, environment, race, nationality, age, and sex. Prereq., 9 hrs. (1st sem., yearly.)

317. EXPERIMENTAL SENSORY PSYCHOLOGY

(3) Johns

A systematic study of sensory processes, including vision, audition, gustation, olfaction, and somesthesia. Experimental methods, research findings, and theory are emphasized. 2 lec., 3 lab. Prereq., 209 (1st sem., yearly.)

319. PSYCHOLOGY OF PERSONALITY

(3) Koons, Pullen

The nature of personality as revealed in interrelations to biological, psychological, and cultural concepts. Prereq., 9 hrs. (1st sem., yearly.)

320. PERSONNEL AND VOCATIONAL COUNSELING

(3) Klare, Russell

Methods and techniques useful in considering personnel and vocational problems to be met in industrial, commercial, and school work. Prereq., 9 hrs., including 190. (2nd sem., yearly.)

325. MINOR PROBLEMS IN PSYCHOLOGY

(1 to 3) Staff

Training in the scientific study of some problem of special interest to the student. Relatively independent work emphasized. Maximum credit in course, 6 hrs. Prereq., 9 hrs. and permission. (Each sem.)

335. HISTORY OF PSYCHOLOGY

(2) Staff

The evolution of methods and concepts of psychology with emphasis on more recent trends. Prereq., 9 hrs. (1st sem., yearly.)

337. COUNSELING AND PSYCHOTHERAPY

(3) Patrick, Pullen

Analysis of theory and practice in counseling and psychotherapy. Prereq., 9 hrs. (2nd sem., yearly.)

341. PSYCHOLOGY OF COMMUNICATION

(3) Klare

A psychological approach to the process of communication, with applications to problems in the social sciences. Prereq., 12 hrs. and permission. (1st sem., yearly.)

351. SEMINAR IN PSYCHOLOGICAL PROBLEMS IN INDUSTRY

(3) Uhrbrock

Consideration of problems of selection, placement, motivation, development, and evaluation of employees, with emphasis on job analysis, interviewing, testing, rating, and attitude evaluation as related to worker satisfaction, fatigue, and productivity. Prereq., 6 hrs., 105 or equivalent, and permission. (Each sem.)

353. LEARNING

(3) Nygaard

A study of methods and basic data in the areas of conditioning, discrimination learning, problem solving, habit formation, and retention. 2 lec., 3 lab. Prereq., 9 hrs. (1st sem., yearly.)

401. SYSTEMS OF PSYCHOLOGY

(3) Johns, Nygaard

A critical analysis and comparison of modern and contemporary psychological theory. Prereq., 15 hrs. (2nd sem., yearly.)

402. PERCEPTION

(3) Staff

The psychological principles of perception involving the study of impersonal (time, space, motion) and personal (social) phenomena. Prereq., 15 hrs. (2nd sem., 1960-61.)

403. INDIVIDUAL INTELLIGENCE TESTING (3) Koons, Pullen
The theory, methods, practice, and results of intelligence tests. 2 lec., 1 lab. Prereq., 15 hrs., including 190.
406. AN INTRODUCTION TO PSYCHODIAGNOSIS (3) Koons, Pullen
A survey and practice of methods and techniques in diagnosing and evaluating personality disorders. Prereq., 310 or 312 and 403. (2nd sem., yearly.)
407. CLINICAL PSYCHOLOGY (3) Koons, Patrick, Pullen
The theory and use of clinical methods including interviewing, observation, case documentation, professional problems, and individual testing. Prereq., 337, 403. (1st sem., yearly.)
419. THEORIES OF PERSONALITY (3) Staff
A critical consideration of the theories of personality structure and origin. Prereq., 315, 319. (2nd sem., 1960-61.)
421. PRACTICUM IN PERSONNEL AND VOCATIONAL COUNSELING (3) Russell
A course designed to provide experience in personnel and vocational counseling. The work will include the handling of counseling cases, discussion of cases, and readings. Prereq., 320. (1st sem., yearly.)
423. RESEARCH METHODS AND TECHNIQUES (2) Paulsen
Study of research methods especially suited to handling problems in social sciences. Major emphasis is placed on the application and interpretation of statistical techniques. Maximum credit in course, 6 hrs. Prereq., 15 hrs. (1st sem., yearly.)
427. ADVANCED PERSONNEL PSYCHOLOGY (3) Paulsen, Russell
The integration of facts and theories from various areas of psychology as applied to personnel problems in education, business, and industry. Prereq., 320. (2nd sem., 1960-61.)
432. ADVANCED SOCIAL PSYCHOLOGY (3) Staff
A summary of the main theoretical and substantive trends in contemporary social psychology, with emphasis upon the role of small group theory and research. Prereq., 315. (2nd sem., 1961-62.)
454. LEARNING THEORY (3) Anderson
Lectures and readings covering theoretical works in the field of learning. Prereq., 15 hrs., including 353. (2nd sem., yearly.)
471. QUANTITATIVE METHODS (3) Games
General topics of measurements including correlational and experimental design analyses. 3 lec., 1 lab. Prereq., 190. (1st sem., yearly.)
472. QUANTITATIVE METHODS (3) Games
A continuation and extension of 471. 3 lec., 1 lab. Prereq., 471. (2nd sem., yearly.)
481. RESEARCH IN PSYCHOLOGY (1 to 6) Staff
Prereq., 15 hrs., permission.
494. ADVANCED SEMINAR IN PSYCHOLOGY (1 or 2) Staff
Trends and methods in psychology are critically reviewed. Cooperative investigations, findings of many studies coordinated with the student's own findings. Maximum credit in course, 4 hrs. Prereq., 15 hrs., permission. (2nd sem., yearly.)
495. THESIS (1 to 6) Staff
Prereq., permission.

RADIO-TELEVISION

Associate Professors Jukes, Turnbull,
Baird, Highlander
Assistant Professors Baxter, Greer, Johnson
Instructor Beach
Station Engineers Tompkins, Hafer

47. RADIO WORKSHOP

- a. Engineering (1 or 2) Tompkins
- b. Station Procedures (1) Greer

79. INTRODUCTION TO RADIO-TV

(2) Baird, Greer

The development of radio and television. Attention given to American and foreign systems, mechanics of broadcasting, FCC rules, networks, advertising and public service programs.

105. RADIO-TV BROADCASTING MECHANICS

(2) Tompkins

Introduction to the technical aspects of radio and television broadcasting.

147. RADIO WORKSHOP

(2) Staff

Rehearsal, performance, and other work connected with radio programming. Maximum credit in course, 4 hrs. Prereq., 6 hrs. in radio, permission.

180. RADIO SPEECH

(3) Staff

Microphone technique, pronunciation problems. Practice in reading various types of materials. 1 lec., 2 lab. Prereq., Speech 2.

225. RADIO PRODUCTION

(3) Greer

Radio techniques, sources of radio material, editing and preparation of radio play scripts, and use of sound effects. Practice work in the University station. 1 lec., 4 lab. Prereq., 180.

226. ADVANCED RADIO PRODUCTION

(2) Greer

Prereq., 225.

280. RADIO-TV NEWS WRITING AND EDITING

(2) Baxter

(Same as Jour. 280.) The study and practice of writing and editing news for broadcasting. Students will prepare radio news from local sources and press services. Prereq., 79, Jour. 107.

285. RADIO-TV NEWS PRACTICE

(2 or 3) Baxter

(Same as Jour. 285.) A laboratory course in the production of regular newscasts covering both preparation of copy and the actual broadcasts of the script over WOUB and WOUI, AM and FM. Maximum credit in course, 6 hrs. Prereq., 280.

301. PRINCIPLES OF TELEVISION PRODUCTION

(3) Highlander

History of television, its impact upon society and other media of communication, production aspects of television, and general principles of transmission and reception. Prereq., junior standing, 10 hrs. in radio, permission.

302. TELEVISION PRODUCTION LABORATORY

(2) Johnson

Laboratory experience in the production of basic television program types. Prereq., 301.

303. TELEVISION NEWS PRODUCTION

(3) Baxter

(Same as Jour. 303.) The preparation and production of television news. Experiments in visual presentation of news and discussion of the organization and policies of the television newsroom. Prereq., 280, Photog. 123, permission.

309. RADIO-TV ADVERTISING AND MANAGEMENT (3) Turnbull
(Same as Jour. 309.) A study of the business principles and practices in the broadcasting industry, dealing with problems in radio and TV station operation, with major emphasis on time sales. Prereq., Advt. 155 or permission.
316. CONTINUITY WRITING (2) Johnson
Writing of scripts including continuity, straight and dramatized commercials, original and short sketches, and stories. Prereq., 12 hrs. radio and journalism, or 12 hrs. English, junior standing.
317. WRITING FOR TELEVISION (3) Johnson
Writing and critique of the form, structure, and presentation of both dramatic and non-dramatic formats. Prereq., 301, 316 or permission.
331. DIRECTING FOR TELEVISION (3) Greer
Analysis and application of the theory and techniques of directing for television with special attention to the problems involved in the basic formats. 2 lec., 4 lab. Prereq., 302 or equivalent.
332. DRAMATIC PRODUCTION FOR TELEVISION (3) Johnson
Rehearsal, performance and technical work connected with the production of the dramatic script. 2 lec., 4 lab. Prereq., 331, or Dram. A. 299, 350.
347. TELEVISION WORKSHOP (1 or 2) Staff
Scenery, lighting, make-up, photographic processes, and graphics. Maximum credit in course, 4 hrs. Not open for graduate credit. Prereq., senior standing and permission.
375. PROGRAM PLANNING AND BUILDING (3) Highlander
Radio station operation with particular reference to programming, costs, staff, program building, and series planning. Prereq., senior standing, 226, 309 or equivalent.
385. RADIO AND TELEVISION IN EDUCATION (3) Johnson
Study of the problems in broadcasting and televising high school and college courses. Practical applications in setting up programs. Prereq., 12 hrs. Radio-TV or 12 hrs. Education, permission.
483. SEMINAR IN RADIO AND TELEVISION (3) Jukes
Special emphasis on the problems and the potentialities of educational television. Prereq., 12 hrs., permission.
484. SEMINAR IN TELEVISION PRODUCTION (3) Jukes
Current literature and advanced research in television production problems. Use of laboratory facilities for research of an exploratory or experimental nature. Prereq., permission.
494. RESEARCH (1 to 12) Staff
Individual, guided research on special problems. Projects must be approved prior to registration. Prereq., 8 hrs., permission.
495. THESIS (1 to 6) Staff
Prereq., permission.

RESERVE OFFICER'S TRAINING CORPS

Professor James R. Patrick, Coordinator

AIR SCIENCE

Professor of Air Science: Lieutenant Colonel Moberly

Assistant Professors: Major Polk, Captains Hopkins, Harrison,
Zimmerman, Wiegand

Instructors and Administrative Assistants: Master Sergeant Cargill
Technical Sergeants Scarmack, Brown, Sincoskie
Airman First Class Lindsay

1, 2. BASIC COURSE

(2, 2) Staff

Introduction to the eight-semester AFROTC program and the advantages of flight training. Elements and potentials of air power. Air vehicles and principles of flight. Military instruments of national security. Professional opportunities in the United States Air Force. Basic military and leadership training (laboratory). Three hours a week.

101, 102. BASIC COURSE

(2, 2) Staff

The Evolution of aerial warfare: Introduction to traditional warfare on land and sea. Beginnings of aerial warfare, evolution of air doctrine between the wars, aerial warfare in the Second World War and after, targets, weapons, aircraft and missiles (delivery systems), bases and facilities. Operations: general considerations, peacetime operations, combat operations. Operations in space-problems and possibilities. Leadership training (laboratory). Three hours a week. Prereq., 1, 2.

221, 222. ADVANCED COURSE

(3, 3) Staff

Air Force commander, his staff and the air base. Communicating and instructing in the Air Force. Creative problem solving. Military justice system. Preparation for summer training. Leadership. Leadership training (laboratory). Five hours a week. Prereq., 101, 102 and selection for Advanced Air Force ROTC.

AFROTC SUMMER CAMP

(3) Camp & Air Base Staff

A four-week training program conducted on an Air Force base between the junior and senior years, consisting primarily of orientation to base facilities with some classroom work to make practical application of courses covered in the freshman, sophomore and junior years and also to provide opportunity for life under military conditions.

Instruction includes physical training, familiarization flying, USAF base activity and equipment, individual weapons, drill, field exercises, air base problems. Prereq., 221, 222.

251, 252. ADVANCED COURSE

(3, 3) Staff

Critique of summer camp. Introduction to the Advanced Course. Flight training. Weather and navigation. Introduction to international relations. Military aspects of world political geography. The Air Force officer. Leadership training (laboratory). Five hours a week. Prereq., 221, 222, 251.

MILITARY SCIENCE AND TACTICS

Professor of Military Science and Tactics: Lieutenant Colonel Lucas

Assistant Professors: Major Catlin; Captains Sherman, Coleman;

First Lieutenant Sterzik

Instructors: Sergeants Allen, Saffle, Eintracht, Bach,

Robeysek, Zimmerman

1, 2. BASIC MILITARY SCIENCE I

(2, 2) Staff

Organization of the Army and ROTC, individual weapons and marksmanship. American military history, school of the soldier and exercise of command. Three hours a week.

101, 102. BASIC MILITARY SCIENCE II

(2, 2) Staff

Map and aerial photograph reading to include application of the basic principles; functioning and tactical use of infantry crew-served weapons; school of the soldier and exercise of command. Three hours a week Prereq., 1, 2.

221, 222. ADVANCED MILITARY SCIENCE III

(3, 3) Staff

Leadership, military teaching methods; organization, functions, and missions of the arms and services, small unit tactics and communications, school of the soldier and exercise of command. Five hours a week. Prereq., two years of basic course or one year of active duty and by permission of the P. M. S. T.

SUMMER ROTC CAMP

(3) Camp Staff

A six-week training program to be conducted at an Army post, camp, or base. Summer training will supplement instruction given in Military Science courses 221, 222, 251, and 252 with practical work in weapons and marksmanship, interior guard, maps and photographs, tactical exercises, signal communications, operation under field conditions, and specialized training. Particular emphasis is placed on the development of leadership, character, and the student's capability to function effectively in small unit combat operations, as may be required of any officer regardless of branch. Prereq., 221, 222.

251, 252. ADVANCED MILITARY SCIENCE IV

(3, 3) Staff

Command and staff, military intelligence, training management, logistics, military administration, personnel management, military justice, role of the United States in world affairs, exercise of command. Prereq., 221, 222 and by permission of the P. M. S. T.

ROMANCE LANGUAGES—See Modern Languages

RUSSIAN—See Modern Languages

SCULPTURE—See Art

SECRETARIAL STUDIES

Associate Professor Sponseller (chairman)

Assistant Professors Via, Appel, Weaver, Richards

Instructor Reitzes

15. BEGINNING TYPEWRITING

(2) Reitzes, Richards

Development of basic skill on the typewriter and application of this skill to the more common typing practices. Achievement standard—30 words per minute. 5 hours a week; 1 hour arranged. Prereq., not open to those who have had high school typewriting.

16. INTERMEDIATE TYPEWRITING

(2) Appel

Development of further basic skill in the operation of the typewriter and quantity production of business forms. Achievement standard—45 words per minute. 5 hours a week; 1 hour arranged. Prereq., 15 with a scholastic average of 2.0 or one year high school typewriting.

31. BEGINNING SHORTHAND

(3) Appel, Reitzes, Richards

Theory of Gregg Simplified shorthand. Development of ability to take dictation. Achievement standard—60 words per minute on new material. 4 hours a week. Prereq., 15 or with 15; not open to those who have had high school shorthand.

32. INTERMEDIATE SHORTHAND

(3) Appel, Richards, Via

Increasing the student's ability to take dictation. Achievement standard—80 words per minute on new material. 4 hours a week. Prereq., 31 with a scholastic average of 2.0 or one year high school shorthand; 16 or with 16.

111. ADVANCED TYPEWRITING

(2) Richards

Development of speed and accuracy in the production of related typewriting office problems. Achievement standard—60 words per minute. 5 hours a week; 1 hour arranged. Prereq., 16 with a scholastic average of 2.0 or two years high school typewriting.

151. BEGINNING DICTATION AND TRANSCRIPTION

(3) Appel

Increasing dictation rates and developing transcription techniques. Achievement standards—100 words per minute on new material; 25-word-per-minute transcription rate. 5 hours a week. Prereq., 111, 32 and Eng. 3 with a scholastic average of 2.0 in each. Two years high school shorthand may be substituted for 32.

152. ADVANCED DICTATION AND TRANSCRIPTION

(3) Reitzes, Richards, Via

Achievement standards—120 words per minute on new material; 35-word-per-minute transcription rate. 5 hours a week. Prereq., 151 with a scholastic average of 2.0.

153. SPECIALIZED DICTATION AND TRANSCRIPTION

(3) Via

Development of greater speeds and of vocabulary other than that required by an ordinary business office. 5 hours a week. Prereq., 152 with a scholastic average of 2.0 and permission.

172. FILING SYSTEMS AND PROCEDURES

(1) Richards

Various filing procedures and their applications. 2 lec., 1 lab. Prereq., 16.

173. MACHINE TRANSCRIPTION

(1) Reitzes

Development of skill in the use of machine transcribers. 1 lec., 2 lab. Prereq., 111 and Eng. 3 with a scholastic average of 2.0 in each.

180. OFFICE MACHINES

(2) Reitzes, Weaver

Training in the solution of the more common mathematical business office problems on key-driven and crank-driven calculators. Instruction on accounting, dictating, and duplicating machines. 5 hours a week.

181. OFFICE PROCEDURES

(2) Via

Application of skills to solution of typical office problems and procedures. 5 hours a week. Prereq., 180, 16, and Acct. 75.

220. BUSINESS COMMUNICATIONS

(3) Sponseller

Application of English in the writing of effective business letters and reports for typical business situations. Prereq., Eng. 4, junior or senior rank.

261. TEACHING OF BUSINESS SUBJECTS

(1 to 3) Appel

Principles and procedures of teaching business subjects at the secondary level with emphasis in the areas of general business education and vocational business education. Prereq., junior rank, major or minor in Business Education.

275. SECRETARIAL PRACTICE

(3) Sponseller

Students spend 5 hours a week working in offices on the campus and 2 hours a week in conference. Prereq., 151, 172, 173, 181.

330. OFFICE MANAGEMENT

(3) Weaver

(Same as Mgt. 330.) A study of the office, or information-handling, activities of business organizations and the application of scientific-management principles to the administration of those office services. Prereq., Mgt. 211 or 312, junior or senior rank.

OTHER COURSES AVAILABLE

335, COMMERCIAL CURRICULUM CONSTRUCTION (2)

387, RESEARCH IN BUSINESS TEACHING PROBLEMS (1 to 8)

391, SEMINAR IN BUSINESS TEACHING PROBLEMS (2 to 4)

437, ADMINISTRATION IN BUSINESS EDUCATION (3 to 6)

SOCIAL SCIENCE—See General Studies**SOCIOLOGY**

Professor Harlan (chairman)

Assistant Professors Worstell, Park

Instructors Kwan, Fannin

The major requirements for the A.B. degree in sociology are as follows: (1) **Specific courses:** 10 hrs., consisting of 1 or 101; 151-152 or 301-381; 175; 375. (2) **Area requirements:** Social Organization, 6 hrs., chosen from 207, 211, 220, 260, 316, 320; Social Psychology, 3 hrs., chosen from 210, 325, 326; Collective Behavior, 3 hrs., chosen from 229, 307, 321, 336; Community Structure, 3 hrs., chosen from 2, 204, 315; Electives, 9 hrs., chosen from any departmental courses. (3) **Optional areas:** students wishing to do so may designate one of the following as an area of special interest, and fulfill the elective requirement therein (see College of Arts and Sciences section of the catalog): (a) Criminology and Juvenile Delinquency (204, 311, 322); (b) Pre-professional Social Work (102, 133, 234, 248, 339, 341); (c) Cultural Anthropology (105, 211, 315, 316); (d) Demography and Human Ecology (204, 209, 318).

Majors ordinarily will take 1 and 2 in the freshman year; 151, 152 and 175 should be taken in the sophomore year. All majors must present credit for a course in statistics; (the following courses are acceptable for this purpose: Educ. 381, Psych. 105, or Stat. 155.) In fulfilling the College of Arts and Sciences requirement in natural science, majors should register for Zool. 3-4.

SOCIOLOGY**1. GENERAL SOCIOLOGY**

(3) Staff

Survey of major sociological studies of culture, racial and ethnic groups, population, social classes, family relationships, personality development, urbanism, and social change. Not open to juniors or seniors. (Each sem.)

2. MODERN AMERICAN COMMUNITIES

(3) Staff

Continuation of 1, with application of concepts in the analysis of contemporary community life, utilizing recent research reports as sources. Prereq., 1. Not open to juniors or seniors. (Each sem.)

101. PRINCIPLES OF SOCIOLOGY

(3) Staff

Introductory course for students, covering the same fields as 1, with more emphasis upon individual reading and reports. Not open to students who have taken 1. Not open to freshmen. (Each sem.)

105. SOCIAL ANTHROPOLOGY

(3) Park

Human origins, prehistoric cultures, early civilizations, contemporary primitive societies, and major culture areas. Methods of anthropological research. Prereq., 1 or 101. (1st sem., yearly.)

151. ELEMENTARY RESEARCH TECHNIQUES

(2) Staff

Laboratory course in skills of scientific procedure in the study of social behavior. Study design, schedule and scale construction, techniques of survey and depth interviewing and recording, analysis of data, and research reports. Prereq., 1, or with 101. (1st sem., yearly.)

152. FIELD STUDIES IN SOCIOLOGY

(2) Staff

Planning and execution of an empirical study of interest to the student, utilizing the skills developed in 151. Limited class meetings; conferences with instructor; formal report. Prereq., 151. (2nd sem., yearly.)

175. CURRENT SOCIOLOGICAL LITERATURE

(1) Staff

Scope and types of the professional literature of sociology, especially journals. Brief attention to professional organizations, graduate training, and employment opportunities. Prereq., 1 or 101. (Each sem.)

203. READINGS IN SOCIOLOGY

(1) Staff

Independent reading of major treatises and research monographs in a field chosen by the student under the guidance of a staff member. Maximum credit in course, 2 hrs. Prereq., 6 hrs., permission. (Each sem.)

204. URBAN COMMUNITIES

(3) Fannin

Development of modern cities: demographic characteristics; ecological and social organization; the nature of urbanism; city planning. Prereq., 1 or 101. (2nd sem., yearly.)

207. EDUCATIONAL SOCIOLOGY

(3) Staff

Study of the school as a social institution in its relation to the community and the development of the child; comparative systems of education; sociology of learning and teaching. Prereq., 1 or 101. (2nd sem., yearly.)

209. INTRODUCTION TO THE STUDY OF POPULATION

(3) Staff

Population growth and distribution; vital statistics; the labor force; demographic reports and methods of research. Prereq., 1 or 101. (1st sem., 1960-61.)

210. SOCIAL BEHAVIOR

(3) Harlan

Social-psychological development of the individual; the emergence of role-taking abilities and self-concepts in social interaction; the function of language in conduct. Prereq., 1 or 101. (Each sem.)

211. RACE AND CULTURE CONTACTS

(3) Kwan

Processes of competition, conflict, accommodation, and assimilation in the relations of racial and ethnic groups; individual and collective experiences arising in the contacts of peoples of diverse cultures. Prereq., 1 or 101. (2nd sem., yearly.)

220. SOCIAL PROBLEMS

(3) Fannin

Descriptive and theoretical analysis of major types of deviant and disorganized behavior involving individuals, families, and the community; popular and scientific programs of control and treatment. Prereq., 1 or 101. (1st sem., yearly.)

229. CROWD, MASS, AND PUBLIC

(3) Harlan

Collective action under conditions of social unrest; crowd behavior and its impact upon social institutions; social-psychological factors in mass action; publics as instruments of social change. Prereq., 1 or 101. (1st sem., yearly.)

260. MARRIAGE AND THE FAMILY

(3) Staff

The family in various cultures; courtship, marriage, and family relationships in American society; family disorganization; the development of marriage counseling. Prereq., 1 or 101. (1st sem., yearly.)

301. SOCIAL RESEARCH METHODS

(2) Staff

Scientific method in sociological research; problem definition, research design, field techniques, statistical, and other methods of data analysis. Prereq., 6 hrs. and a course in statistics. (1st sem., 1960-61.)

303. SOCIOLOGICAL THEORY

(2) Staff

Origins and development of sociology; major European and American contributors; current trends and the status of specialized fields of interest. Prereq., 6 hrs. (2nd sem., yearly.)

307. VOLUNTARY ASSOCIATIONS

(3) Harlan

Origins, membership, and functions of quasi-institutional groups such as lodges, welfare agencies, service organizations, sports and hobby clubs, and business and political associations as major forms of collective action. Prereq., 6 hrs. (2nd sem., 1961-62.)

311. CRIMINOLOGY AND PENOLOGY

(3) Fannin

Introduction to modern criminology and the correctional treatment of offenders. Field visits to courts and correctional institutions. Prereq., 6 hrs. (1st sem., yearly.)

315. FOLK COMMUNITIES

(3) Park

Comparative study of primary village communities in various societies; the impact of Western technology and institutions; the disorganization of folk cultures. Prereq., 6 hrs. (2nd sem., 1961-62.)

316. CULTURE AND CIVILIZATION

(3) Park

Analysis of the concept "civilization" and of the transformation of social life which it represents. Social institutions and change in selected civilizations outside the main course of Western history. Prereq., 6 hrs. (2nd sem., 1960-61.)

318. WORLD POPULATION TRENDS

(3) Staff

Differential rates of growth in various countries; medical, technological, economic, and political problems; current national and international policies and programs. Prereq., 209. (2nd sem., 1961-62.)

320. INDUSTRIAL SOCIOLOGY

(3) Staff

Work groups, industries, and businesses as social systems; worker-union-management relations; industry and the community; human relations in industry. Prereq., 6 hrs. (1st sem., 1961-62.)

321. CONTEMPORARY SOCIAL MOVEMENTS (3) Harlan

Organized movements resulting in major social changes; revolutionary, nationalistic, reform, religious, and fashion movements; leaders, ideologies, tactics; case studies of typical movements. Prereq., 6 hrs. (2nd sem., 1960-61.)

322. JUVENILE DELINQUENCY (3) Fannin

Factors associated with delinquency; characteristics of delinquents; juvenile courts and clinics; probation, correctional training; delinquency prevention. Field visits. Prereq., 6 hrs. (2nd sem., yearly.)

325. PERSONALITY AND SOCIETY (3) Harlan

Current research on child-rearing practices and parent-child relationships in various cultures and social classes, and their consequences for the personality development of the individual. Prereq., 210, or 9 hrs. psych. (1st sem., 1960-61.)

326. INTERPERSONAL RELATIONS (2) Staff

Analysis of episodes of group interaction; role-playing as an experimental device; theories concerning development of competence in interpersonal relations. Prereq., 210, or 9 hrs. psych. (2nd sem., yearly.)

336. PUBLIC OPINION AND MASS COMMUNICATIONS (3) Harlan

Processes of opinion formation; methods of studying public opinion and its relation to policy decisions; organization and control of mass media, and the functions of media content; the role of propaganda. Prereq., 6 hrs. (2nd sem., yearly.)

350. SPECIAL STUDIES (1 to 4) Staff

Guided readings in fields of sociology not included in the departmental curriculum. Abstracts of readings, conferences with instructor, final essay. Maximum credit in course, 4 hrs. Prereq., 12 hrs.; junior and senior majors; permission. (Each sem.)

370. IN-SERVICE TRAINING (1 to 3) Staff

Individually-arranged off-campus experience under responsible supervision, with periodic reports and evaluation. Request to register must be approved by April 15th. Prereq., 12 hrs.; junior and senior majors; permission. (Summer only.)

375. SENIOR SEMINAR (2) Staff

Required of all senior majors; includes comprehensive examination covering required courses and electives submitted for major. Students graduating at mid-year will substitute 350 or 381. Prereq., 20 hrs. completed and senior status. (2nd sem., yearly.)

381. RESEARCH PROBLEMS IN SOCIOLOGY (1 to 3) Staff

Individual research; may be coordinated with other student or staff projects. Maximum credit in course, 6 hrs. Prereq., 151, 152 or 301 and permission. (Each sem.)

491. TOPICAL SEMINARS (2 per area) Staff

Selected topics in the following areas, offered in sequence in a two-year cycle: (a) Social Organization, (b) Social Psychology, (c) Collective Behavior, (d) Community Structure. Topic announced each term. Maximum credit in course, 6 hrs. Prereq., permission. (Yearly.)

495. THESIS (1 to 6) Staff

The M.A. thesis in sociology ordinarily is expected to constitute 4 hrs. of the total degree requirement. Prereq., permission.

SOCIAL WORK

102. THE SOCIAL SECURITY SYSTEM (2) Worstell

Historical development and current provisions of the Social Security Act and related programs established by law, and their significance in American life; comparisons with social security systems of other nations. (Each sem.)

133. SOCIAL WORK IN THE AMERICAN COMMUNITY (3) Worstell

Survey of social services as administered through public and voluntary agencies, including historical and philosophical backgrounds. Field trips and individual projects. Prereq., 1 or 101. (Each sem.)

234. CHILD WELFARE (3) Worstell

Legislation regarding child care and protection; services for children in their own homes, foster homes, and institutions. Case materials illustrating services and resources. Prereq., 133, or 6 hrs. psych., home ec., or ed. (Each sem.)

248. SOCIAL GROUP WORK (2) Worstell

Principles, methods, and types of group work; agencies sponsoring group work programs. Students participate in or lead group work project. Prereq., 133. (2nd sem., 1960-61.)

339. INTRODUCTION TO SOCIAL CASE WORK (3) Worstell

The development of social case work; analysis of basic principles; problems and methods as seen in theoretical and case material. Prereq., 234; consent of instructor. (Each sem.)

341. FIELD SERVICES (2) Worstell

In-service observation of agency functions and methods; assignment to specific work responsibilities; conferences with training supervisor. Two afternoons each week. Maximum credit in course, 4 hrs. Prereq., 339, consent of instructor. (Each sem.)

SPANISH—See Modern Languages

SPEECH AND SPEECH AND HEARING THERAPY

Professors Staats, Kantner, Andersch, A. C. LaFollette

Associate Professors Jukes, Wiseman, Brandes, Lane

Assistant Professors Hahne, Penson, Catalano

Watkins, Ham, Greer, Johnson, Trisolini

Instructors Boros, Rice, Nichol, Beach

SPEECH

1. FUNDAMENTALS OF SPEECH (1) Andersch, Staff

Study and practice of basic techniques for effective participation in everyday speaking situations. 1 lec., 1 lab.

2. VOICE AND ARTICULATION (2) Hahne, Staff

Designed to help each student discover and remedy his vocal and articulatory problems. Not open to majors.

3. PUBLIC SPEAKING (2) Wiseman, Staff

Principles of public speaking. Practice in presenting short informative, entertaining, and persuasive speeches with emphasis upon intellectual and emotional adjustments to speaking situations. Prereq., 1 or proficiency test.

7. BASIC SPEECH TRAINING

(2) Hahne, Staff

Group drill and individual instruction designed to help the student achieve adequate proficiency in the basic aspects of speech. Open only to, and required of, majors or prospective majors in Dramatic Art and Speech. Credit will not be given for both 2 and 7.

25. PRINCIPLES OF ARGUMENTATION

(2) Brandes, Staats, Watkins, Wiseman

Analysis of the debate proposition, preparation of the brief, study of evidence, and class debates.

34. ORAL INTERPRETATION OF LITERATURE

(3) Catalano, Hahne, Nichol, Trisolini

Techniques in oral interpretation and the development of adequate intellectual and emotional responsiveness to the meaning of literature. Prereq., 2 or 3 or permission.

104. BASES OF SPEECH

(3) Andersch, Brandes

The physiological, phonetic, psychological, and semantic bases of speech. Prereq., sophomore standing; major in Dramatic Art and Speech.

110. PARLIAMENTARY PROCEDURE

(1) Brandes, Staats, Watkins

Prereq., 1 or proficiency test.

112. ADVANCED PUBLIC SPEAKING

(2) Watkins, Wiseman

Extended study and application of the principles of public speaking with emphasis on content and organization. Preparation and delivery of various types of speeches of substantial length. Prereq., 3 or permission.

147. WORKSHOP IN SPEECH

(1 or 2) Staats, Wiseman

Preparation and delivery of speeches and readings for local, state, and national contests and/or intercollegiate debate. Maximum credit in course, 6 hours. Prereq., permission.

205. DYNAMICS OF GROUP DISCUSSION

(3) Wiseman

Study and practice of the principles and techniques of group discussion as an integral part of the democratic pattern of living. Emphasis on the functions of discussion in public relations and as a method of instruction.

260. TEACHING OF HIGH SCHOOL DRAMATICS AND SPEECH

(3) Andersch

Organization of curricular and co-curricular speech and dramatic activities; analysis of available materials; methods of casting, staging, and producing plays; problems in the coaching of debate and oratory. Prereq., junior standing, major or minor in dramatic art and speech.

303. ADVANCED ORAL INTERPRETATION

(3) Trisolini

A study of the principles of types of literature from the standpoint of the oral interpreter. Emphasis on the development of skill in the interpretation of various forms of poetry, prose, and dramatic literature. Prereq., 34.

305. PROBLEM SOLVING THROUGH GROUP DISCUSSION (3) Wiseman

Social responsibility, ethical problems and standards; application of the principles of general semantics and group dynamics; purposes, types, and methods of discussion; frequent class practice. Prereq., junior standing.

309. CLASSICAL RHETORICAL THEORY (3) Staats

The principles of rhetoric based upon the theories of Aristotle, Cicero, Quintilian, and Adams. Speeches of eminent orators are analyzed. Prereq., F.A. 203-204 or permission.

325. DIRECTION OF FORENSIC PROGRAMS (3) Brandes, Watkins

Organization of forensic programs in high schools and colleges, management of inter-school contests and tournaments, coaching of debate, discussion and individual events, and principles of judging. Practical application in the university forensic program. Prereq., 25, 305 or equivalent.

333. ORAL INTERPRETATION OF DRAMATIC LITERATURE (3) Trisolini

A study of the principles of drama from the standpoint of the oral interpreter. Special emphasis on the modern period from Ibsen and Chekov to the present. Prereq., 303, or Dram. Art 339.

340. APPLICATIONS OF GENERAL SEMANTICS TO SPEECH (3) Wiseman

The chief formulations from general semantics will be presented with special emphasis on the application of these principles to the field of speech. Prereq., 10 hrs. of speech or permission.

342. PERSUASION (3) Brandes

Survey of experimental research on the content and arrangement of speeches with emphasis on the use of evidence and of emotional and ethical proof. Prereq., 9 hrs., including 25 or permission.

344. APPROACHES TO THE STUDY OF ORAL COMMUNICATION

(3) Wiseman

Comparison and integration of the various approaches to the study of communication behavior in individuals and groups. Prereq., 12 hrs., or 9 hrs. psychology or permission.

349. RHETORICAL CRITICISM (3) Watkins

Theories and critical methods of Plutarch, Cicero, Goodrich, Brougham and selected modern writers. Prereq., 12 hrs., including 309, or equivalent.

372. BRITISH AND FRENCH PUBLIC ADDRESS (3) Watkins

A study of the pulpit and political orators of the French revolutionary period and the British parliamentary orators of the 18th and early 19th centuries. Prereq., 309 or equivalent.

395. ADVANCED ARGUMENTATION AND DEBATE (3) Brandes

Advanced principles of argumentation and persuasion. Analysis of logical, ethical, and emotional proofs. Prereq., 15 hrs., including 25 and 112 or equivalent.

399. SENIOR SEMINAR (2 or 3) Kantner

Open by invitation only to senior majors.

401. INTRODUCTION TO GRADUATE WORK (3) Kantner

Men, movements, and professional literature in the field of speech. Conduct of research and selection of a thesis problem.

412. ADVANCED SPEECH COMPOSITION AND DELIVERY (3) Staats

Advanced study of content, organization, composition, and delivery of lecture-length speeches. Prereq., 112, 309, or equivalent.

462. SPEECH AND HIGHER EDUCATION (3) Andersch

Philosophy and function of speech as an academic discipline and problems in the teaching of speech at the college level. Prereq., 18 hrs.

471. AMERICAN PUBLIC ADDRESS

(3) Staats

The history of public address in America from colonial times to the present. Prereq., 112, F.A. 203-204 or equivalent.

475. GREEK, ROMAN, AND PATRISTIC PUBLIC ADDRESS

(3) Staats

Historical and cultural aspects of public address in the Greek, Roman, and Patristic periods. Outstanding speakers and speeches of each period analyzed in terms of the issues of the time. Prereq., F.A. 203-204, Speech 309, Hist. 115 or 120 or equivalent.

485. CONTEMPORARY STUDIES IN PUBLIC ADDRESS

(3) Brandes

Prereq., 12 hrs., 401.

490. SEMINAR IN PUBLIC ADDRESS

(3) Staats, Watkins

Advanced study in the history of public address, rhetorical theory, or rhetorical criticism and speech analysis. Class discussions and reports. Prereq., 309 or 471, or equivalent.

491. SEMINAR IN SPEECH EDUCATION

(2 or 3) Andersch

Problems in the teaching of basic speech courses at the college level, evolution of the speech curriculum. Assigned problems. Prereq., 15 hrs.

494. RESEARCH

(1 to 12) Staff

Individual, guided research on special problems. Projects must be approved prior to registration. Prereq., 8 hrs., permission.

495. THESIS OR DISSERTATION

(As recommended by department) Staff

Prereq., permission.

Additional course: F.A. 203-204—History of Oratory

See also courses listed under DRAMATIC ART and RADIO-TV.

SPEECH AND HEARING THERAPY

4. REMEDIAL SPEECH

(1 or 2) LaFollette, Staff

The Speech and Hearing Clinic is equipped and staffed to aid students in overcoming special speech problems. Instruction and supervised remedial practice are offered for individuals and small groups. Enrollment with permission at any time up to four weeks prior to the end of the semester. Not to be counted in hours or points for graduation.

194. SPEECH CORRECTION FOR THE CLASSROOM TEACHER (3) Rice

Nature, causes, and treatment of defective speech in the public schools with special reference to the role of the regular classroom teacher. Open to majors in elementary education; others by permission. Not open to majors in dramatic art and speech.

195. PRINCIPLES OF SPEECH CORRECTION

(3) Andersch, Boros

The nature, symptoms, causes, etiology, and diagnosis of disorders of speech and voice. Emphasis on methods and techniques in the correction of common speech defects. Prereq., 6 hrs., Psych. 1 or 5, or permission.

247. CLINICAL PRACTICE IN SPEECH CORRECTION

(1 or 2) Ham, LaFollette, Rice

Supervised clinical practice with children or adults in the University Speech and Hearing Clinic. Maximum credit in course, 4 hrs. Prereq., 307, 310, 320, permission.

262. **SPEECH AND HEARING THERAPY IN PUBLIC SCHOOLS** (2) Rice
Methods, organization, and implementation of speech and hearing programs in the public schools. Must be taken concurrently with Student Teaching. Prereq., 307.
307. **CLINICAL METHODS** (3) Ham
Basic orientation to speech therapy. Observation of children with normal and defective speech. Clinical work in the school situation and in the Children's Speech Clinic. Prereq., 6 hrs., including 195.
310. **SPEECH PATHOLOGY** (3) LaFollette
Organic speech disorders. Prereq., 195.
312. **PHONETICS** (3) Kantner
The study of speech sounds from a sociological, physiological, and acoustical point of view. Mastery of the international phonetic alphabet. Training in phonetic transcription. Prereq., 6 hrs. or permission.
319. **AUDIOMETRY AND SPEECH AND HEARING PROBLEMS** (3) LaFollette
Techniques and audiometric testing with clinical practice; interpretation of audiograms, criteria for educational placement and referral; principles of hearing aid selection; public school hearing conservation programs. Prereq., 6 hrs., or equivalent of 6 hrs., permission.
320. **ADVANCED CLINICAL METHODS** (3) LaFollette
Methods in speech correction for adults; survey of current literature; clinical experience with adults in such problems as articulatory disorders, stuttering, aphasia, cerebral palsy, cleft palate and loss of hearing. Prereq., 10 hrs., including 310.
323. **LIP READING** (3) LaFollette
The basic principles of understanding language by observing the speaker's lips and facial expression. Emphasis on both theory and practice of speech reading. Special attention given to teaching methods. Prereq., 6 hrs.
329. **ADVANCED CLINICAL AUDIOLOGY** (3) LaFollette
Pathology of the ear and related speech disorders, emphasizing advanced techniques in the testing of hearing for analysis and for differential diagnosis. Prereq., 12 hrs. in speech and hearing therapy, including 319.
335. **DIAGNOSTIC PROCEDURES IN SPEECH AND HEARING THERAPY** (3) Ham
The role of diagnosis in speech and hearing therapy; conducting the speech examination; the nature, purpose, administration and interpretation of the more important diagnostic tests and procedures. Prereq., 320 or with 320.
345. **STUTTERING AND PSYCHOGENETIC DISORDERS OF SPEECH** (3) Penson
Nature, causes, development, and treatment of stuttering and other speech defects with psychogenic implications. Prereq., 310, 320 or with 320.
362. **THE SPEECH AND HEARING MECHANISM** (3) Ham
The structure and functions of the mechanisms for speech and hearing. Prereq., senior standing and major.
392. **SPEECH SCIENCE** (3) Penson
Research methods and laboratory projects. Prereq., senior majors or graduate students.

405. CLINICAL PROGRAMS IN SPEECH AND HEARING THERAPY

(3) LaFollette

Organization and administration of clinical programs in speech and hearing therapy. Prereq., 310, 319, 320.

455. LANGUAGE FOR THE DEAF AND HARD OF HEARING (3) Person

Stage by stage instruction for the teaching of speech to deaf and hard of hearing children of all ages. Prereq., 307, 319, 323 or equivalent.

465. LANGUAGE PROBLEMS OF THE BRAIN INJURED (3) Ham

Consideration of the neurological basis, pathological causes and speech and psychological implications of cerebral palsy, aphasia, and other types of brain injury, together with methods of therapy. Prereq., 310, 320, 362 or permission.

476. RESEARCH DESIGN IN SPEECH SCIENCE (3) Person

Scope and philosophy of speech science. Instrumentation, research designs, areas of research and significant findings in selected contemporary studies. Group or individual research projects in speech pathology, audiology, and phonetics. Prereq., 392.

492. SEMINAR IN SPEECH CORRECTION (3) LaFollette, Person

Current literature and advanced research in the field of speech correction. Individual reading projects. Class reports and discussions. Prereq., 12 hrs., including 195.

494. RESEARCH (1 to 12) Staff

Individual, guided research on special problems. Projects must be approved prior to registration. Prereq., permission, 8 hrs.

495. THESIS OR DISSERTATION (As recommended by department) Staff

Prereq., permission.

STATISTICS

Associate Professor Soltow (chairman)
Acting Instructor Westbrook

155. BUSINESS STATISTICS (4) Soltow

Elementary statistical methods used in business. 3 lec., 3-hour lab. Prereq., Ec. 12 or 102 and Math. 3 and 34 or Math. 15 and 16.

271. ANALYSIS OF STATISTICAL DATA (3) Soltow

Study of reports and forecasts of business firms, bureaus, and agencies. Application of statistical methods of specific problems. Prereq., 155.

303. STATISTICAL QUALITY CONTROL (3) Staff

The application of sampling theory to industrial operations. A course in industrial statistics especially recommended for students interested in production control. Prereq., 155.

310. INTERMEDIATE (3) Soltow

Techniques of small sample tests applied in marketing and opinion polling, statistical quality control, economics, and government statistics. Prereq., 155.

341. BUSINESS CYCLES (3) Staff

A study of the nature, causes, and theory of the business cycle together with a survey of techniques of description and control. Prereq., 155 or with 155.

345. FORECASTING**(3) Staff**

The theory of prediction of social data and the theory of business forecasting with special reference to economic conditions and the business cycle. Prereq., 155 or with 155.

350. RECENT TRENDS IN STATISTICAL TECHNIQUES**(3) Soltow**

Applications to business and economics including input-output tables, quantified economic models, linear programming, and decision making. Prereq., 155.

381. RESEARCH IN BUSINESS STATISTICS**(1 to 8) Staff**

Prereq., 18 hrs. commerce including 155 and permission.

391. SEMINAR IN BUSINESS STATISTICS**(2 to 4) Staff**

Maximum credit in course, 10 hrs. Prereq., 18 hrs. commerce, including 155 and permission.

Additional course: Math 332—Theory of Statistics.

ZOOLOGY

Professors Elliott, Frey (chairman), Stehr
Associate Professors Seibert, Lawrence, McQuate
Assistant Professors Southwick, W. Peterson,
Vallowe, Wilson, Huling
Instructor Zenisek

The major requirement for the A.B. degree is a minimum of 24 hours in approved departmental courses; for the B.S. degree, a minimum of 24 to 30 hours. These courses must include Zool. 3-4, 107, 120 or 121, 235 or 305. In addition the following extra-departmental courses are required: Chem. 3-4 & 99, Math. 9 or 15 (medical technology majors have no requirement in mathematics), Phil. 110 or 209 or other approved course in philosophy. Premedical students are urged to elect Math. 9 and 10, and to include these courses as part of the freshman program. Students who substitute a year in medical or dental school for the senior year are credited with 8 hours on the major for the A.B. degree and 10 hours for the B.S. degree. Those who complete the affiliated training in medical technology at Mount Carmel Hospital are credited with 32 hours toward the B.S. degree.

Curricula are outlined in the College of Arts and Sciences section of the catalog for students preparing for medicine, dentistry, physical therapy, and medical technology. Students who wish to teach and to complete requirements for the A.B. or B.S. degrees with a major in zoology, may meet requirements for certification for teaching.

3. PRINCIPLES OF ZOOLOGY**(3) Staff**

Elementary physiology and anatomy of a living organism to illustrate principles of life: metabolism, growth, reproduction, and heredity. 2 lec., 2 lab. No credit if student has had Biol. 1, 2. (Each sem.)

4. PRINCIPLES OF ZOOLOGY**(3) Staff**

A survey of the important animal phyla to illustrate major biological principles; the relationships of animals and their environment; the doctrine of evolution as the underlying principle. 2 lec., 2 lab. Prereq., 3. No credit if student has had Biol. 1, 2. (Each sem.)

103. READINGS IN BIOLOGY**(1) Stehr**

For students interested in advances in biological fact and thought. Prereq., 4, or Biol. 2.

107. PRINCIPLES OF HEREDITY

(3) McQuate

An introduction to the fundamental principles of heredity and variation. Practical applications to animal and plant breeding, human heredity, and race betterment. Prereq., 4, or Biol. 2, or 6 hrs. botany (1st sem., yearly.)

108. ELEMENTARY LABORATORY GENETICS

(2) McQuate

Breeding experiments primarily with *Drosophila* designed to illustrate the principles of heredity. 4 lab. Prereq., 107. (2nd sem., yearly.)

113. BIOLOGY OF VERTEBRATES

(4) Seibert

A study of vertebrate animals, other than birds, including classification, life histories, and other pertinent topics. Identification of museum collection with emphasis on Ohio specimens; collecting and preserving techniques; field work. 2 lec., 4 lab., field work. Prereq., 4. (1st sem., 1960-61.)

118. ORNITHOLOGY

(3) Seibert

A study of birds and bird biology, including classification, migration, general anatomy and physiology, life histories, and economic values. Emphasis on field identification. 2 lec., 2 lab., or field work. Prereq., 4, or Biol. 2. (2nd sem., yearly.)

120. COMPARATIVE VERTEBRATE ANATOMY

(4) Elliott

A comparative study of body systems of vertebrates, with laboratory work covering various type forms. 2 lec., 4 lab. Prereq., 4. (2nd sem., yearly.)

121. ELEMENTS OF ANATOMY

(3) Southwick

Course for majors in zoology other than premedical and pre dental students. Particular emphasis is given to a study and dissection of the head, thorax, and abdomen of the cat. 2 lec., 2 lab. Prereq., 4. (1st sem., yearly.)

133-134. ANATOMY, KINESIOLOGY, AND PHYSIOLOGY

(4-4) Vallowe, Trepp

(Same as P.E. 133-134.) Body systems are studied with particular emphasis on the skeleton, joints, and muscles, including physiology of exercise and muscular movements. 2 lec., 4 lab. Prereq., 3. (Yearly.)

216. ANIMAL COMMUNITIES

(4) Seibert

A study of animals in relation to their surroundings. Discussion of the general principles governing animal distribution and animal communities. 2 lec., 4 lab. or field work. Prereq., 4. (2nd sem., yearly.)

219. GENERAL ENTOMOLOGY

(4) Stehr

The structure, habits, and life histories of insects, with practice in collecting, mounting, and identification. 2 lec., 4 lab. Prereq., 4. (1st sem., yearly.)

225. ANIMAL MICROTECHNIC

(1 or 2) Peterson

The principles and methods of preparing animal material for microscopic study. Principles of the microscope and its accessories. 1 lec., 4 lab. Prereq., 4, junior or senior rank. (1st sem., yearly.)

235. ELEMENTS OF PHYSIOLOGY

(4) Wilson

Functions of various tissues and organs of mammals as applied particularly to the human organism. Recommended for home economics students. 2 lec., 4 lab. Prereq., 4, or 3 and 6 hrs. home economics. (2nd sem., yearly.)

241. ELEMENTARY BACTERIOLOGY (4) Lawrence

Morphology and physiology of bacteria, staining reactions, preparation of media and the biochemical reactions resulting from bacterial activity. Department majors are referred to Zool. 311. 2 lec., 4 lab. Prereq., 4 or Biol. 2, or 6 hrs. botany; 8 hrs. chemistry. (Each sem.)

245. CLINICAL TECHNIC (2) Frey

The theory and practice of making various tests used in laboratories of clinical pathology with emphasis on hematology. Prereq., 311, permission. (1st. sem., yearly.)

301. COMPARATIVE VETEbrate ANATOMY—MAMMALIAN (4) Elliott

The anatomy of mammals with particular emphasis on the cat. 2 lec., 4 lab. Prereq., 120. (1st sem., yearly.)

302. VERTEBRATE EMBRYOLOGY (4) Peterson

All phases of vertebrate development are considered, and particular emphasis in laboratory is given to the chick and pig. 2 lec., 6 lab. Prereq., 120 or 121. (2nd sem., yearly.)

304. HISTOLOGY (4) Southwick

A study of the fundamental body tissues of vertebrates followed by a study of the histology of the body systems. 2 lec., 4 lab. Prereq., 120 or 121. (2nd sem., yearly.)

305. PRINCIPLES OF PHYSIOLOGY (4) Wilson

Physio-chemical composition of living material; properties of solutions, membranes and enzymes; physiology of body systems. 2 lec., 6 lab. Prereq., 120 or 121, Chem. 4, 99. Organic chemistry valuable. (1st sem., yearly.)

307. PRINCIPLES OF ENDOCRINOLOGY (4) Vallowe

A study of the organs of internal secretion from the standpoint of their phylogeny, embryology, micro-anatomy, and physiology. 2 lec., 4 lab. Prereq., 120 or 121; 235 or 305. (Given upon sufficient demand.)

309. BIOLOGICAL CHEMISTRY (4) Wilson

Introduction to physical chemistry of true and colloidal solutions; principles of enzyme action; chemistry of and tests for: carbohydrates, proteins, fats; digestion and metabolism; chemical analysis of: blood, bile, milk, urine. 2 lec., 4 lab. Prereq., 12 hrs., Chem. 113, 117. (1st sem., yearly.)

311. GENERAL BACTERIOLOGY (4) Frey

A study of the structure, classification, and relationships of bacteria; preparation of cultures, staining, and biochemical reactions. Not open for graduate credit to majors in bacteriology. 2 lec., 4 lab. Prereq., 4 and Chem. 113 or 201. (Each sem.)

312. PATHOGENIC BACTERIOLOGY (4) Lawrence

Microorganisms in relation to diseases. A study of disease manifestations, methods of transmission, means of protection and immunity. 2 lec., 4 lab. Prereq., 311. (1st sem., yearly.)

314. MICROBIOLOGICAL TECHNICS (2) Frey, Lawrence

A practical course designed to give the student extensive experience in the use of bacteriological technics and equipment. 4 lab. Prereq., 311 or 241, organic chemistry. (1st sem., yearly.)

316. ANIMAL PARASITES

(4) Lawrence

Parasites in relation to human disease. Parasites infesting man, their life histories, the diseases they produce, and means of prevention. 2 lec., 4 lab. Prereq., 10 hrs., permission. (2nd sem., yearly.)

317. ADVANCED GENERAL BACTERIOLOGY

(4) Lawrence

Bacteria as living systems. Subjects considered will include: growth requirements, enzyme systems, intermediary and end products formed, influence of environmental factors and bacterial taxonomy. 2 lec., 4 lab. Prereq., 311 or 241, organic chemistry. (2nd sem., 1960-61.)

320. ADVANCED ENTOMOLOGY

(4) Stehr

Insect morphology and the principles of insect classification and identification, with emphasis on the more extensive orders. 2 lec., 4 lab. Prereq., 219. (2nd sem., 1960-61.)

323. PROTOZOOLOGY

(4) Peterson

Life histories, physiology, and relationships of representatives from all major groups of protozoa. 2 lec., 4 lab. Prereq., 12 hrs. (Given upon sufficient demand.)

325-326. INVERTEBRATE ZOOLOGY

(4-4) Stehr

Structure, relationships, and life histories of representative members of the various invertebrate phyla, together with related general principles. 2 lec., 4 lab. Prereq., 10 hrs., permission. (1961-62.)

327. ANIMAL ECOLOGY

(4) Seibert

A study of the effect of environment on animals; the role of temperature, moisture, gases, photoperiod, metabolism, osmotic regulation on ecological distribution; physiological and structural adaptations. Experimental methods in field and laboratory. 2 lec., 4 lab. or field work. Prereq., 216. (1st sem., 1961-62.)

330. ANIMAL BEHAVIOR AND SOCIOBIOLOGY

(3) Southwick

A study of comparative animal behavior emphasizing the classification of behavioral traits, the factors influencing behavioral expression, the demographic aspects of social behavior, and the evolution of social organization. 2 lec., 2 lab. Prereq., 305. (Given upon sufficient demand.)

331. EVOLUTION

(2) Seibert

The evidence for, and current ideas and research on, the mechanisms of organic evolution. Prereq., 107. (Given upon sufficient demand.)

343. BIOLOGICAL STUDIES (1 to 4 a semester in any of the following areas)

Semi-independent studies under the guidance of the instructor. Maximum credit in any one area, 8 hrs. Prereq., 10 hrs., permission.

- a. Bacteriology—studies in water, dairy, and pathogenic bacteriology; serology and advanced technic. Frey, Lawrence.
- b. Ecology—field and laboratory studies of the relationship between animals and their surroundings. Seibert, Southwick, Stehr.
- c. Entomology—classification, structure, life histories, and economic aspects of insects. Stehr.
- d. Genetics—breeding experiments, pedigree analysis, and library work in the field of heredity. McQuate.
- e. Invertebrate Zoology—classification, structure, embryology, and life history of invertebrates. Huling, Peterson, Stehr.
- f. Parasitology—animal parasites. Lawrence, Peterson.
- g. Physiological Zoology—physiological and related experimental studies. Vallowe, Wilson.
- h. Readings in Biology—biological history, theory, and advances. Stehr.

- i. Technician's Methods—technic and theory of blood, urine, gastric analysis, fecal examination, and serological methods. Frey, Lawrence.
- j. Vertebrate Anatomy—gross and microscopic anatomy, embryology, histological technic. Elliott, Peterson.
- k. Vertebrate Zoology—classification, life history studies. Seibert, Vallowe.

413. BACTERIOLOGICAL REVIEW (2) Frey, Lawrence
An advanced theoretical course in bacteriology. Prereq., 12 hrs. bacteriology, permission. (Given upon sufficient demand.)

415. PHYSIOLOGICAL REVIEWS (2) Wilson
An advanced lecture and conference course, involving literature review in various specialized phases of physiology and biological chemistry. Prereq., 8 hours of physiology, 309, permission. (Given upon sufficient demand.)

485. RESEARCH IN BIOLOGY (1 to 4) Staff
Research work in all areas listed under 343. This course fulfills the thesis requirement. Maximum credit in course, 4 hrs. Prereq., 20 hrs., permission.

MEDICAL TECHNOLOGY

Mount Carmel Hospital Staff
H. B. Davidson, M.D., Director

The following courses are offered at Mount Carmel Hospital, Columbus, Ohio. See curriculum in the College of Arts and Sciences section of the catalog.

291. URINALYSIS Four weeks (3)
The physical, chemical, and microscopic study of urine.

292. HEMATOLOGY Eight weeks (5)
Total red and white blood counts, hemoglobin determination, differential counts of white blood cells, sedimentation rates, blood typing, and blood cross-matching.

293. BACTERIOLOGY, SEROLOGY, AND PARASITOLOGY Eight weeks (11)
Review of medical bacteriology with particular emphasis upon and reference to methods of recognition and detection of types of bacteria; methods in which blood serum can be used in recognition and diagnosis of disease; review of parasites pathogenic to man; methods of examining feces; microscopic and bacteriologic study of sputum.

294. CHEMISTRY Thirteen weeks (8)
A study of the methods of blood chemistry determinations; methods of gastric analysis and the more complicated chemical procedures for urine and other body products.

295. HISTOLOGIC TECHNIC Six weeks (4)
Reviews of fundamental procedures in the preparation of tissue for microscopic examination; study of special stains commonly used in microscopic examination of human tissue; experience in handling, on a routine basis, large amounts of human tissue for microscopic study.

296. BASAL METABOLISM AND ELECTROCARDIOGRAPHY Two weeks (1)
Study of the methods of determining the basal metabolic rate, and a study of the electrocardiograph and methods of taking electrocardiographic tracings.

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INDEX

A	
Absences	20, 71
Accounting, Courses in	181
Accreditation	14
Activities, Student	43
Administrative Officers	305
Admission:	
Advanced Placement	60
Application for	54
Extension Division	177
Graduate College	162
Subjects in High School	54
Tests	55, 56
Advanced Placement Examination	60
Advanced Standing Examinations	61
Advertising, Courses in	182
Advisers, Student	21, 82, 163
Agriculture:	
Courses in	183
Curriculum	119
Degree with major in	119
Airport, University	16
Air Science, Courses in	284
Alumni Office	23
American Studies, Courses in	227
Apartments	18
Applications:	
Admission	54
Advanced Placement Examination	60
Advanced Standing Examination	61
Auditors	64
Board and Room	17
Change of College	65
Extension Division	177
Foreign Student	58
Graduate College	162
Graduation	72
Graduation in Absentia	75
Honors Work	76
Loan Funds	30
Scholarships	24
Applied Music, Courses in	260
Applied Science, College of	85
Appointments, Bureau of	22
Archaeology, Courses in	184
Architecture	158
Architecture, Courses in	184
Art, Courses in	185
Art History, Courses in	185
Arts and Sciences, College of	100
Assistants, Graduate	165
Associate in Arts Diploma	82
Astronomy, Courses in	189
Athletics:	
Coaching Staff	269
Fields	16
Intercollegiate	42, 170
Intramural	42, 170
Auditing Privilege	64
Automobiles, Registration of	66
Awards and Prizes	34

B	
Bands, University	47
Biology, Courses in	226
Board and Room	17
Botany, Courses in	190
Branches, University	168
Buildings and Grounds	14
Bureau of Appointments	22
Business Law, Courses in	192
Business Teacher Training	124

C	
Cadet Program, Teacher	131
Calendar, University	4
Campus Affairs Committee	43
Center for Educational Service	142
Center, Ohio University	41
Ceramics, Courses in	186
Certificates, Teaching	144
Change of Address	65
Change of College	65
Change Orders, Course	64
Chapel, Galbreath	40
Chemical Engineering:	
Courses in	212
Degree in	89
Chemistry, Courses in	193
Chorus, University	47
Civil Engineering:	
Courses in	213
Degree in	90
Classical Languages, Courses in	196
Clinics:	
Health	19
Hearing	21, 147
Speech	21, 147
Writing	73
Clothing and Textiles	95, 242
Colleges	12
Applied Science	85
Arts and Sciences	100
Commerce	117
Education	129
Fine Arts	146
Graduate	161
University	79
Commencement	77
Commerce:	
College of	117
Curriculum	121
Degree in	119
Concert Series	39
Correspondence Study	177
Counseling	21
Courses of Instruction	179
Credit:	
Course	180
Extension and Correspondence	178
Grades	67
Graduate	164

Hours	66
Military Service	60
Residence	75, 164
Curricula	12
Agriculture	119
American Studies	106
Applies Modern Physics	106
Architecture	158
Art	157
Art Education	159
Cadet Program	131
Chemical Engineering	89
Civil Engineering	90
Commerce	121
Design	158
Dramatic Art and Speech	147
Electrical Engineering	91
Elementary Education	131
Home Economics	92
Industrial Engineering Option	92, 123
Industrial Technology	98
Journalism	125
Mechanical Engineering	91
Medical Technology	109
Music	149
Nursing	111
Occupational Therapy	112
Painting and Drawing	157
Photography	160
Physical Education and Athletics	170
Predental	107
Proforestry	107
Prelaw	108
Premedical	110
Preoptometry	112
Prepharmacy	113
Prephysical Therapy	113
Preprofessional	107
Preveterinary Medicine	115
Secondary Education	132
Secretarial Studies	124
Social Work	114
Special Subjects, Education	135
Speech	148
Speech and Hearing Therapy	148
Teaching	86, 115, 124, 130, 146
Technical Engineering Option	92
Theology	115

D

Dean's List	69
Debate	46
Degrees	12
Bachelor of Arts	101
Bachelor of Fine Arts	146
Bachelor of Science	104
Bachelor of Science with a Major in Agriculture	119
Bachelor of Science in Chemical Engi- neering	89
Bachelor of Science in Civil Engineer- ing	90

Bachelor of Science in Commerce	120
Bachelor of Science in Education	130
Bachelor of Science in Electrical Engineering	91
Bachelor of Science in Home Economics	92
Bachelor of Science in Industrial Technology	98
Bachelor of Science in Journalism	125
Bachelor of Science in Mechanical Engineering	91
Bachelor of Science in Secretarial Studies	123
Doctor of Philosophy	162
Master of Arts	162
Master of Business Administra- tion	13, 162
Master of Education	13, 162
Master of Fine Arts	13, 162
Master of Science	13, 162
Degree, Second Bachelor's	77
Design, Courses in	158, 185
Diploma, Associate in Arts	82
Dissertation	165
Divisions:	
Branches	168
Physical Education and Athletics	168
Reserve Officers' Training Corps	174
University Extension	177
Dormitories	17
Dramatic Art and Speech, School of	147
Dramatic Art, Courses in	198
Dramatic Organizations	45
Drawing, Courses in	158, 185

E

Economics, Courses in	200
Education, College of	129
Education, Courses in:	
Elementary Education	203
General Education	206
Guidance and Counseling	207
History and Philosophy	208
Professional Laboratory Experiences	205
Research and Scientific Techniques	208
School Administration and Super- vision	209
Secondary Education	205
Special Education, Elementary	204
Teaching Techniques	203
Education, Degrees in	130, 162
Education, Graduate Work	143, 162
Electrical Engineering:	
Courses in	215
Degree in	91
Elementary Education:	
Courses in	203
Curriculum	131
Emeriti Deans and Professors	309
Employment Opportunities	34
Engineering	86
Admission to	87

Chemical	89, 212
Civil	90, 213
Courses in	211
Curricula	88
Drawing	208
Electrical	91, 215
Graphics	211
Industrial Option, Mechanical	92, 123
Mechanical	91, 218
Technical Option, Mechanical	92
English, Courses in	220
English, Proficiency in	73
Entrance Requirements	54
Evening School	178
Examinations:	
Advanced Placement	60
Advanced Standing	61
Graduate Students	162
Medical	20, 58
Testing	21, 55
Expense Estimate	63
Extension Division, University	177

F

Faculty Roster	309
Farm, University	16
Fees and Deposits	61
Fees:	
Auditors	62
Board	17
Comprehensive	62
Correspondence Study	62
Equalization Plan	61
Extension Class	62
Miscellaneous	62
Private Instruction	62
Refund of	18, 63
Registration	63
Room	17
Summer Session	62
Fellowships, Graduate	165
Finance, Courses in	224
Financial Aids, Student	24
Fine Arts:	
College of	145
Courses in	225
Degrees in	146, 162
Food Service	17
Foods and Nutrition	95, 239
Foreign Language Requirements	
.....	81, 102, 104
Foreign Students	22, 58
Forensic Organizations	45
Fraternities	18, 51
French, Courses in	258
Freshman Year	80
Fund, Ohio University, Inc.	23

G

General Studies, Courses in	226
Geography, Courses in	227

Geology, Courses in	228
German, Courses in	257
Glee Clubs	47
Golf Course, University	16
Government:	
Courses in	231
Grades:	
Admission	57
Graduation	72
Honors Work	76
Minimum Standard	72, 164
Point Deficiency	69
Probation	69
Reports	68
Transcripts	70
Grading System	67
Graduate College:	
Admission	162
Admission to Candidacy	163
Appointments	165
Assistantships and Fellowships	165
Credit	164
Degrees	162
Dissertation	165
Examinations	165
Program of Study	164
Record Examination	162
Requirements for the Degrees	165
Standards of Work	164
Thesis	165
Time Limit	165
Graduation Regulations:	
Application	72
Commencement	77
Honors Work	76
In Absentia	75, 109, 110, 122
Major Areas of Study	73
Physical Education	74
Proficiency in English	73
Residence	75
R.O.T.C.	74
Scholastic Average	68, 72
Second Bachelor's Degree	77
Time Limit	76, 165
With Honor	76
Grants-in-Aid	27
Greek, Courses in	197
Guest Artists & Speakers	40
Guidance and Counseling, Courses in	207
Guidance Program	21, 82

H

Health Service, Student	19, 33
History, Courses in	233
History and Philosophy, Education, Courses in	208
History of the University	12
Home Economics:	
Core Courses	94
Courses in	237
Curricula	93
Degree in	92
School of	92

Secretarial Work	123
Social Work	114, 291
Teaching	86, 115, 124, 130, 146
Theology	115
Preprofessional Curricula:	
Dental	107
Forestry	107
Medical	110
Medical Technology	109
Nursing	111
Optometry	112
Pharmacy	113
Physical Therapy	113
Veterinary Medicine	115
Printing Administration, Courses in	246
Prizes and Awards	34
Probation Regulations	69
Proficiency in English	73
Psychology, Courses in	278
Publications, Student	44

R

Radio-Television, Courses in	282
Radio Stations	46
Recreation	41
Refund of Fees	18, 63
Registration	61, 63, 82, 163
Regulations, University	53
Religion, Courses in	265
Religious Organizations	47
Repeating a Course	68
Research and Scientific Techniques,	
Education, Courses in	208
Reserve Officers' Training Corps:	
Air Science, Courses in	284
Division	174
Military Science and Tactics, Courses	
in	285
Requirement	74
Residence Halls	17
Residence Requirement	75, 164
Residents of Ohio	56
Romance Languages, Courses in	258
Romance Philology, Courses in	259
Room and Board	17
Russian, Courses in	259

S

Scholarship Regulations	67
Scholarships	24, 166
Scholastic Average	63
Scholastic Organizations	48
School Administration and Supervision,	
Courses in	209
School of:	
Dramatic Art and Speech	147
Home Economics	92
Journalism	125
Music	149
Painting and Allied Arts	157
Sculpture, Courses in	186
Secondary Education:	

Courses in	205
Curriculum	132
Degree in	130
Sessions, The	14
Social Organizations	51
Social Policy, Student	43
Social Science, Courses in	226
Social Work, Preparation for	114, 291
Sociology, Courses in	287
Sororities	18, 51
Spanish, Courses in	259
Special Education, Courses in	204
Special Education, Curriculum	135
Special Students	59, 60, 163
Speech, Courses in	291
Speech, Requirement	81
Speech and Hearing Therapy, Courses	
in	294
Statistics, Courses in	296
Student:	

Activities	42
Advisers	21, 82, 163
Center	41
Council	44
Employment	34
Financial Aids	24
Government Associations	44, 52
Health Service	19
Load	64, 83, 164
Publications	44
Teaching	139

Students:

Auditors	64
Classification of	64
Foreign	22, 58
Freshmen	80
Graduate	162
Part-time	59
Special	59, 60, 163
Transfer	54, 57, 58, 164
Summer Session, The	178
Summer Theatre	45

T

Teaching Certificates	144
Teaching, Preparation	
for	86, 115, 124, 130, 146
Teaching Techniques, Courses in	203
Technical Engineering Option	92
Television	46
Terminal Programs	82
Testing and Vocational Counseling	21
Testing Program	55
Theatre, Summer	45
Theatre, University	45
Thesis	164
Time Limit for Graduation	76, 165
Trailer Parks	19
Training Schools	140, 142
Transfer Student	54, 57, 58, 164
Transcripts	70
Trustees, Board of	304

U

Union, Men's	44
University College, The	79
University Information, Office of	22

V

Vacations	4
Vaccination	20, 58
Veterans	21, 57
Vocational and Counseling Service	21

W

Withdrawal from Course	64
Withdrawal from University	65
Women's League	44

Y

Y.M.C.A. and Y.W.C.A.	47
----------------------------	----

Z

Zoology, Courses in	297
---------------------------	-----



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